

# 11<sup>th</sup> Biology

## Full Book Solved MCQs

### Objective Type

#### 1. Encircle the Correct Option.

1. درست جواب کے گرد دائرہ لگائیں۔

1) Technically a seed may be defined as a fertilized .

a) Egg	✓b) Ovule	c) Oospore	d) Embryo
--------	-----------	------------	-----------

2) Pseudocoelom is present in .

a) Coclenterates	b) Segments worms	✓c) Round worms	d) Flat worms
------------------	-------------------	-----------------	---------------

3) Yeasts are unicellular .

a) Protozoans	b) Algae	c) Fungi	✓d) Bacteria
---------------	----------	----------	--------------

4) Membrane filters are used to sterilize heat sensitive compounds like .

a) Antibiotics	b) Seras	c) Hormones	✓d) All of these
----------------	----------	-------------	------------------

5) Number of spiracles in cockroach is .

a) 8	b) 7	c) 9	✓d) 10
------	------	------	--------

6) Which of the following is anaerobic bacteria ?

a) Pseudomonas	b) Escherichia coli	✓c) Spirochete	d) Campylobacter
----------------	---------------------	----------------	------------------

7) Cell wall is secreted by .

✓a) Protoplasm	b) Nucleoplasm	c) Golgi complex	d) Ribosome
----------------	----------------	------------------	-------------

8) Pelomyxa palustris is an example of

a) Bacterium	b) Cilliate	c) Algae	✓d) Amocba
--------------	-------------	----------	------------

9) \_\_\_\_\_ first vaccinated 8 year old boy .

a) Pasteur	b) Kobert Koch	✓c) Edward jenner	d) D'Herelle
------------	----------------	-------------------	--------------

10) Voice organs of birds .

a) Larynx	b) Pharynx	✓c) Syrinx	d) Vocal cords
-----------	------------	------------	----------------

11) To avoid brain haemorrhage the \_\_\_\_\_ must be controlled .

a) Heart rate	b) Health	✓c) Blood pressure	d) None of these
---------------	-----------	--------------------	------------------



12) The poriferans are pore - bearing animals , commonly called .

a) Nematodes	b) Cnidarians	✓c) Sponges	d) Roundworms
--------------	---------------	-------------	---------------

13) Which of the following is a parasitic plant ?

a) Drosera	b) Dionea	✓c) Cuscuta	d) Sarracenia
------------	-----------	-------------	---------------

14) The lowest percentage of bio-elements in man among the following is of.

a) Chlorine	b) Suphur	✓c) Manganese	d) Iron
-------------	-----------	---------------	---------

15) Placoid scales are present on the body of .

✓a) Chondrichthytes	b) Osteichthytes	c) Cyclostomata	d) Dipnoi
---------------------	------------------	-----------------	-----------

16) Bacteria which get their food from dead organic matter are .

a) Parasitic	✓b) Saprophytic	c) Symbiotic	d) Chemosynthetic
--------------	-----------------	--------------	-------------------

17) The volume of dry seed may increase up to 200 times after absorbing water by .

a) Active transport	✓b) Imbibition	c) Osmosis	d) Diffusion
---------------------	----------------	------------	--------------

18) Type of bond principally associated with maintaining alpha helix shape of protein ;

a) Disulphide bond	b) Peptide bond	c) Ester bond	✓d) Hydrogen bond
--------------------	-----------------	---------------	-------------------

19) Which of the following structure is best represents structure of haemoglobin ?

a) Primary	b) Secondary	c) Tertiary	✓d) Quaternary
------------	--------------	-------------	----------------

20) Photosynthesis is .

a) Oxidative process	b) Reductive process	c) Catabolic process	✓d) Redox process
----------------------	----------------------	----------------------	-------------------

21) Antiserum is a serum containing .

✓a) Antibodies	b) Antigen	c) Antibiotics	d) Anticancer chemicals
----------------	------------	----------------	-------------------------

22) The rough surface endoplasmic reticulum is involved in the synthesis of .

a) Lipids	✓b) Proteins	c) Ribosomes	d) Glycolipids
-----------	--------------	--------------	----------------

23) The common house fly carries disease causing organisms , contaminate food etc , and causes the .

a) Cholera	b) Hepatits	✓c) Both a & b	d) None of these
------------	-------------	----------------	------------------

24) Guttation occurs in plants through .

a) Cuticle	✓b) Hydathodes	c) Lenticels	d) Stomata
------------	----------------	--------------	------------

25) Engelmann used in his experiment in 1883.

a) Spirogyra	b) Aerobic bacteria	c) Anaerobic bacteria	✓d) Both A & B
--------------	---------------------	-----------------------	----------------

26) Discharge of Blood from blood vessel is called as .

a) Stroke	b) Heart attack	c) Thromobosis	✓d) Haemorrhage
-----------	-----------------	----------------	-----------------

27) The amount of oxygen present in breathed air is .

✓a) 21 to 16	b) 20 to 60	c) 21 to 60	d) 20 to 16
--------------	-------------	-------------	-------------



28) Veins are the blood vessels which transport blood from body cells towards .

a) Brain	b) Kidney	c) Liver	✓d) Heart
----------	-----------	----------	-----------

29) De Duve discovered cell organelle .

a) Mitochondria	✓b) Lysosome	c) Plastids	d) Golgi complex
-----------------	--------------	-------------	------------------

30) The inhibitor which may destroy the globular structure of enzyme is .

a) Competitive	b) Non-competitive	✓c) Irreversible	d) Reversible
----------------	--------------------	------------------	---------------

31) Conidia are non-motile , asexual spores which are cut off at the end of modified hypae called .

a) Basidium	b) Ascus	c) Sporangiohores	✓d) Conidiophores
-------------	----------	-------------------	-------------------

32) Arteriosclerosis causes narrowing and hardening of \_\_\_\_\_ .

✓a) Arteries	b) Veins	c) Capillaries	d) None of these
--------------	----------	----------------	------------------

33) In mosllusca , a blue repiratory pigment is present called .

a) Haemoglobin	b) Prothombin	✓c) Haemoerythrin	d) Haemocyanin
----------------	---------------	-------------------	----------------

34) Omnis clula-e-cellula was hypothesized by.

a) Schleiden	✓b) Rudolph Virchow	c) Louis Pasteur	d) Lorenz Oken
--------------	---------------------	------------------	----------------

35) The human stomach is situated below the .

a) Liver	✓b) Diaphragm	c) Kidneys	d) Spleen
----------	---------------	------------	-----------

36) Plant cells have cell wall outer to cell membrane which is composed of \_\_\_\_\_ .

a) Chitin	b) Flagellin	✓c) Cellulose	d) Glucose
-----------	--------------	---------------	------------

37) Members of phylum chrysophyta are commonly called .

a) Brown Algae	b) Red Algae	c) Dinoflagellates	✓d) Diatoms
----------------	--------------	--------------------	-------------

38) A set of related genera would be grouped into .

✓a) A family	b) An order	c) A species	d) A class
--------------	-------------	--------------	------------

39) The gases the fill the swim bladder are either .

a) Hydrogen , carbon dioxide and nitrogen	✓b) Oxygen , carbon dioxide and nitrogen	c) Oxygen , carbon dioxide and hydrogen	d) Oxygen , hydrogen and nitrogen
---	--	---	-----------------------------------

40) 50 % or so of which of the following occurs as lichens ?

✓a) Ascomycota	b) Zygomycota	c) Basidiomycota	d) Deuteromycota
----------------	---------------	------------------	------------------

41) Respiration means the exchange of respiratory gases ( CO<sub>2</sub> and O<sub>2</sub> ) between the organism and its environment . This exchange is called \_\_\_\_\_ .

a) Internal respiration	b) External respiration	✓c) Both a & b	d) None of these
-------------------------	-------------------------	----------------	------------------

42) Some bacteria transfer genetic material from a donor bacterium to a recipient during a process called \_\_\_\_\_ .

a) Transformation	b) Binary fission	✓c) Conjugation	d) Transduction
-------------------	-------------------	-----------------	-----------------



43) The presence of nucleus in the cell was reported by.

a) Lorenz Oken	b) Theodor Schwann	c) Schleiden	✓d) Robert Brown
----------------	--------------------	--------------	------------------

44) Amoeba moves and obtains food by means of .

a) Flagella	✓b) Pseudopodia	c) Flexing	d) Cilia
-------------	-----------------	------------	----------

45) Excess gastric secretion is an important factor of

a) Obesity	b) Piles	c) Food poisoning	✓d) Peptic ulcer
------------	----------	-------------------	------------------

46) Which one is not example of phylum Mollusca ?

a) Loligo	b) Sepia	c) Octopus	✓d) Asterias
-----------	----------	------------	--------------

47) Ancylostoma duodenale is commonly known as .

a) Flat worm	b) Tap worm	c) Fluke worm	✓d) Hook worm
--------------	-------------	---------------	---------------

48) The common name of Allium cepa is .

✓a) Piyaz	b) Bathu	c) Amaltas	d) Chana
-----------	----------	------------	----------

49) Mammals have only .

a) Right arotic arch	b) Left arotic arch	c) Both left and right arotic arches	d) No arotic arch
----------------------	---------------------	--------------------------------------	-------------------

50) A Little change in pH may leads to.

✓a) Ionization of active sites of enzyme	b) Ionization of substrate	c) Retard or even block enzyme activity	d) Effects enzyme only in high concentration
--	----------------------------	---	--

51) During \_\_\_\_\_ the muscles of ribs are relaxed and the ribs move downward and inward .

✓a) Expiration	b) Inspiration	c) Both a & b	d) None of these
----------------	----------------	---------------	------------------

52) Ustilago species are most common .

a) Rust fungi	✓b) Smut fungi	c) Mold	d) Yeast
---------------	----------------	---------	----------

53) Gymnosperms consitute about one - third of the world .

a) Fruits	✓b) Forests	c) Vegetables	d) Furnitures
-----------	-------------	---------------	---------------

54) The rays generally used for sterilization process are .

a) Alpha	b) Beta	✓c) Gamma	d) X-rays
----------	---------	-----------	-----------

55) A tetrad is a square of .

a) 2 Cocci	✓b) 4 Cocci	c) 6 Cocci	d) 8 Cocci
------------	-------------	------------	------------

56) An enzyme and its substrate react with each other through definite charge bearing sites called \_\_\_\_\_ sits .

a) Catalytic	b) Passive	c) Binding	✓d) Active
--------------	------------	------------	------------

57) The unit of life is called.

a) Organ	✓b) Cell	c) Tissue	d) Organelle
----------	----------	-----------	--------------



58) *Epulopiscium fishelsoni* grows as large as 600  $\mu\text{m}$  by.

<input checked="" type="checkbox"/> a) 80 $\mu\text{m}$	b) 70 $\mu\text{m}$	c) 90 $\mu\text{m}$	d) 60 $\mu\text{m}$
---	---------------------	---------------------	---------------------

59) Which one of the following is false about AIDS ?

a) HIV	b) T - Lymphocytes	c) Acquired-immune deficiency syndrome	<input checked="" type="checkbox"/> d) None of these
--------	--------------------	--	--

60) How many types of amino acids are present in the living cells and tissues ?

a) 20	b) 25	c) 150	<input checked="" type="checkbox"/> d) 170
-------	-------	--------	--

61) The light falling on leaf surface is absorbed about .

<input checked="" type="checkbox"/> a) 1 %	b) 25 %	c) 50 %	d) 100 %
--	---------	---------	----------

62) Conjugated histone proteins are .

<input checked="" type="checkbox"/> a) Structural and Regulatory	b) Regulatory only	c) Structural Only	d) Transport proteins
--	--------------------	--------------------	-----------------------

63) The animal can be divided into two equal parts by an imaginary line only in \_\_\_\_\_.

<input checked="" type="checkbox"/> a) One plane	b) Two plane	c) Four plane	d) None
--	--------------	---------------	---------

64) Chl a, Chl b, and carotenoids are found in .

a) Brown algae, golden algae, and diatoms	b) Green algae, golden algae, and euglenoids	<input checked="" type="checkbox"/> c) Green algae, euglenoids, and plants	d) Red algae, euglenoids, and brown algae
---	--	--	---

65) Path way of consulting interconnected protoplasts in roots cells is called.

a) Apoplast	<input checked="" type="checkbox"/> b) Symplast	c) Tonoplast	d) Protoplast
-------------	---	--------------	---------------

66) Fungi obtain their food by direct absorption from the immediate environment and are thus .

a) Ingestive heterotrophs	<input checked="" type="checkbox"/> b) Absorptive heterotrophs	c) Phototrophs	d) Holozoic
---------------------------	--	----------------	-------------

67) Which one is not plant disease ?

a) Potato wilt	b) Powdery mildew	c) Ergot of rye	<input checked="" type="checkbox"/> d) Histoplasmosis
----------------	-------------------	-----------------	---

68) For the synthesis of 10 gm of glucose, plants use solar energy of about .

a) 574 K cal / gm	b) 550 K cal / gm	c) 717.6 K cal / gm	<input checked="" type="checkbox"/> d) 717.6 K cal / gm
-------------------	-------------------	---------------------	---

69) Tests of foraminifera are made up of .

a) Silica	b) Sulphur	<input checked="" type="checkbox"/> c) Calcium	d) Magnesium
-----------	------------	--	--------------

70) Cilia, flagella and centrioles are special assemblies of .

a) Microfilaments	b) Intermediate filaments	<input checked="" type="checkbox"/> c) Microtubules	d) Microfibers
-------------------	---------------------------	---	----------------

71) The capsomere present in the capsid of adenovirus are .

a) 162	b) 200	<input checked="" type="checkbox"/> c) 252	d) 352
--------	--------	--	--------

72) Gel is a \_\_\_\_\_ colloidal solution .



a) Non-viscous	b) Sol	✓c) Viscous	d) None of these
----------------	--------	-------------	------------------

73) The glucose formed in the photosynthesizing cells , is used within the cells and the rest is converted into \_\_\_\_\_ .

✓a) Sucrose	b) Maltose	c) Both a & b	d) None of these
-------------	------------	---------------	------------------

74) If more substrate to an already occurring enzymatic reaction is added , more enzyme activity is seen because.

✓a) Then is probably more substrate present than there is enzyme	b) Then is probably more enzyme available than there is substrate	c) Then is probably more product present than there in either substrate or enzyme	d) The enzyme substrate complex is probably failing to form during the reaction
--	---	---	---

75) Which of the following is not salivary gland ?

a) Sublingual glands	b) Submaxillary glands	✓c) Gastric glands	d) Parotid glands
----------------------	------------------------	--------------------	-------------------

76) Chlorophyll " a " of photosystem I absorbs maximum light of .

a) 670 nm	b) 680 nm	c) 690 nm	✓d) 700 nm
-----------	-----------	-----------	------------

77) Most common smut fungi are .

✓a) Ustilago	b) Puccinia	c) Penicillium	d) Yeast
--------------	-------------	----------------	----------

78) The study of distribution of animals in nature is called .

✓a) Zoogeography	b) Biodiversity	c) Geography	d) Wild life
------------------	-----------------	--------------	--------------

79) Asthma is associated with severe paroxysm of difficult .

a) Sleeping	b) Spreading	c) Walking	✓d) Breathing
-------------	--------------	------------	---------------

80) Brush - like arrangement of its conidia is characteristic of .

a) Rhizopus	✓b) Penicillium	c) Ustilago	d) Agaricus
-------------	-----------------	-------------	-------------

81) 18 % of the total weight of a mammalian cell is the .

a) Water	✓b) Proteins	c) Carbohydrates	d) Lipids
----------	--------------	------------------	-----------

82) Carbon dioxide per 100 ml of venous blood is .

a) 50 ml	✓b) 54 ml	c) 98 ml	d) 99 ml
----------	-----------	----------	----------

83) Study of social behavior of human is called .

a) Anatomy	✓b) Social biology	c) Paleontology	d) Physicology
------------	--------------------	-----------------	----------------

84) If the non-protein part of enzyme is covalently bounded , then it is called .

✓a) Prosthetic group	b) Activator	c) Co-enzyme	d) Co-factor
----------------------	--------------	--------------	--------------

85) Vertebrates that develop embryonic membranes around their embryo are called.

a) Anamniotes	✓b) Amniotes	c) land	d) Water
---------------	--------------	---------	----------

86) \_\_\_\_\_ have most efficient respiratory system .

a) Fish	b) Amphibians	✓c) Birds	d) Mammals
---------	---------------	-----------	------------



87) Lock and key model was proposed by .

<input checked="" type="checkbox"/> a) Emil Fisher	b) Koshland	c) Rudolph Virchow	d) Lorenz Oken
--	-------------	--------------------	----------------

88) Aspergillus belong to Phylum .

a) Zygomycota	b) Ascomycota	<input checked="" type="checkbox"/> c) Deutermycota	d) Basidiomycota
---------------	---------------	---	------------------

89) When cross - section of centriole is observed it shows as it consists of .

<input checked="" type="checkbox"/> a) 9 - microtubules	b) 11 - microtubules	c) 3 - microtubules	d) 6 - microtubules
---	----------------------	---------------------	---------------------

90) HIV belongs to the group of viruses called .

a) Pox viruses	b) DNA viruses	<input checked="" type="checkbox"/> c) Retriovirus	d) Bacteriophage
----------------	----------------	--	------------------

91) Enzyme that produces amino acids.

a) Amino peptidase	b) Chymotrypsin	c) Trypsin	<input checked="" type="checkbox"/> d) Erypsin
--------------------	-----------------	------------	--

92) How many molecules of ATP are produced upon oxidation of NADH in respiratory chain ?

a) 2	<input checked="" type="checkbox"/> b) 3	c) 1	d) 4
------	--	------	------

93) Daily rhythmic opening and closing of stomata is.

<input checked="" type="checkbox"/> a) Internal clock	b) External clock	c) Both Internal and External	d) None of these
---	-------------------	-------------------------------	------------------

94) Gastric glands are composed of .

a) Oxyntic cells	b) Mucous cells	c) Zymogen cells	<input checked="" type="checkbox"/> d) All of these
------------------	-----------------	------------------	---

95) Which is member of Pyrrophyta ?

a) Ulva	<input checked="" type="checkbox"/> b) Gonyaulax	c) Fucus	d) Frequilaria
---------	--	----------	----------------

96) \_\_\_\_\_ is incorrect about guard cells.

a) Have chloroplasts	<input checked="" type="checkbox"/> b) Connected to surrounding cells by plasmodesmata	c) Surrounding stoma	d) Bean shaped
----------------------	--	----------------------	----------------

97) The microspores produced inside microsporangia germinated to form .

a) Male gametophyte	b) Microgametophyte	c) Female gametophyte	<input checked="" type="checkbox"/> d) Both a & b
---------------------	---------------------	-----------------------	---

98) In cell mediated response \_\_\_\_\_ recognize antigen .

a) B - cells	<input checked="" type="checkbox"/> b) T - cells	c) Lymphs	d) None of these
--------------	--	-----------	------------------

99) The fluid which surrounds the thylakoids is called .

a) Matrix	<input checked="" type="checkbox"/> b) Stroma	c) Cytoplasm	d) Nucleoplasm
-----------	---	--------------	----------------

100) The cells which supply ATP and proteins to sieve tubes are .

<input checked="" type="checkbox"/> a) Companion	b) Epidermal	c) Tracheids	d) Vessels
--	--------------	--------------	------------

101) The smallest known virus that contain RNA in spherical capsid are .

a) Herpes viruses	b) Influenza viruses	<input checked="" type="checkbox"/> c) Polio viruses	d) Pox viruses
-------------------	----------------------	--	----------------

102) The amount of Carbon dioxide present in air is about .



a) 0.01 to 0.02 %	b) 0.03 to 0.04 %	✓c) 0.04 to 4 %	d) 0.05 to 0.07 %
-------------------	-------------------	-----------------	-------------------

103) An inhibitor react with enzyme but not transformed into \_\_\_\_\_ .

a) Enzyme	✓b) Product	c) Co-enzyme	d) None of these
-----------	-------------	--------------	------------------

104) Maltase enzyme converts maltose into .

a) Fructose	✓b) Glucose	c) Galactose	d) Sucrose
-------------	-------------	--------------	------------

105) The primitive type of cells , such as bacteria , lack a definite nucleus and are said to be .

a) Eukaryotic	b) Prokaryotic	✓c) Both a & b	d) None of these
---------------	----------------	----------------	------------------

106) In arthropoda the body cavity is .

a) Pseudocoeloms	b) Enterocoel	✓c) Haemocoel	d) None of these
------------------	---------------	---------------	------------------

107) Which of the following is a parasitic plant ?

a) Drosera	b) Dionea	✓c) Cuscuta	d) Sarracenia
------------	-----------	-------------	---------------

108) In the lysogenic cycle , the DNA of a bacteriophage .

✓a) Joins the bacterial chromosome	b) Attaches to the inner surface of the host membrane	c) Is immediately degraded when it enters the host	d) Goes directly to the host's ribosome for translation
------------------------------------	---	--	---

109) \_\_\_\_\_ which is caused by the excessive absorption of water.

a) Diarrhoea	✓b) Constipation	c) Both a & b	d) None of these
--------------	------------------	---------------	------------------

110) The branch of biology which deals with study of ancestral history is .

a) Genetics	b) Zoogeography	c) Evolution	✓d) Paleontology
-------------	-----------------	--------------	------------------

111) Three dimensional globular protein is .

a) Starch	b) Glucose	c) Antibiotic	✓d) Enzyme
-----------	------------	---------------	------------

112) Histamine is produced by .

a) Neutrophils	b) Eosinophils	✓c) Basophils	d) Monocytes
----------------	----------------	---------------	--------------

113) Which is the true sequence of bones in the mammalian ear .

✓a) Malleus , incus and stapes	b) Stapes and malleus	c) Incus and stapes	d) Malleus and stapes
--------------------------------	-----------------------	---------------------	-----------------------

114) Important terrestrial adaptations that evolved exclusively in seed plants include all of the following except .

a) Pollination by wind or animal instead of fertilization by swimming sperm	b) Transport of water through vascular tissues	✓c) Dispersal of new plants by seeds	d) Protection and nourishment of the embryo within the seed
---	--	--------------------------------------	---

115) Fungi can tolerate a wide range of pH from .

a) 3 - 8	b) 4 - 6	✓c) 2 - 9	d) 1 - 5
----------	----------	-----------	----------



116) Photosynthetic prokaryotes lack .

a) Ribosomes	b) Cytoplasm	✓c) Chloroplasts	d) Cell membrane
--------------	--------------	------------------	------------------

117) Cardiac muscle can be distinguished from other muscles fibres because cardiac muscle .

a) Contain only action	b) Voluntary in action	c) Lacks regular arrangement of sarcomas	✓d) Has intercalated discs
------------------------	------------------------	--	----------------------------

118) An example of beautiful and delicate sponge called Venus flower basket is

a) Sycon	b) Leucosolenia	c) Euplectella	✓d) Spongilla
----------	-----------------	----------------	---------------

119) In deuterostomia ( deuterostomes ) cleavage is .

a) Radial	b) Indeterminate	c) Determinate	✓d) Both a & b
-----------	------------------	----------------	----------------

120) Light can work in photosynthesis if only it is .

✓a) Absorbed	b) Reflected	c) Transmitted	d) Refracted
--------------	--------------	----------------	--------------

121) What regulation in freshwater ciliates is controlled by special organelles called .

a) Vacuoles	b) Golgi apparatus	✓c) Contractile vacuoles	d) Lysosomes
-------------	--------------------	--------------------------	--------------

122) Organisms that live upon or within another organism are called .

a) Predators	b) Pests	✓c) Parasites	d) Hosts
--------------	----------	---------------	----------

123) The phenomenon associated with root pressure is .

a) Inhibition	b) Cohesion	✓c) Guttation	d) Tension
---------------	-------------	---------------	------------

124) In \_\_\_\_\_ phase bacterial death rate is equal to the bacterial rate of reproduction .

a) Lag	✓b) Stationary	c) Log	d) Decline
--------	----------------	--------	------------

125) Lymph most closely resembles with

a) Blood	✓b) Plasma	c) Interstitial	d) Urine
----------	------------	-----------------	----------

126) An outer flexible covering of ciliates is .

a) Cell wall	b) Pellicle	✓c) Cuticle	d) Sheath
--------------	-------------	-------------	-----------

127) A kind of headache migraine is treated by .

✓a) Ergotine	b) Lovastatin	c) Griseofulvin	d) Aspergillus
--------------	---------------	-----------------	----------------

128) Emulsification is the function of .

✓a) Bile	b) Lipax	c) Amylase	d) Protease
----------	----------	------------	-------------

129) Animals that have their body cavity filled with parenchyma are .

✓a) Acoelomates	b) Coelomate	c) Pseudocoelomates	d) None of these
-----------------	--------------	---------------------	------------------

130) Liver receives blood from digestive system through .

✓a) Hepatic portal vein	b) Portal vein	c) Hepativ vein	d) Iliac vein
-------------------------	----------------	-----------------	---------------

131) Which is used to inhibit fungal growth ?



a) Lovastain	b) Cyclosporin	✓c) Griseofulvin	d) Ergotin
--------------	----------------	------------------	------------

132) In human being the respiratory pigment is .

✓a) Haemoglobin	b) Biliubin	c) Myoglobin	d) Haemocyanin
-----------------	-------------	--------------	----------------

133) Complex specialized flagellates with many flagella are .

✓a) Trichonymphas	b) Trypanosoma	c) Euglena	d) Vorticella
-------------------	----------------	------------	---------------

134) Most of the visible part of lichen is .

✓a) Fungi	b) Algae	c) Bacteria	d) Roots
-----------	----------	-------------	----------

135) Gases \_\_\_\_\_ and \_\_\_\_\_ are transported by blood .

✓a) O <sub>2</sub> and CO <sub>2</sub>	b) O <sub>2</sub> and CO	c) O <sub>2</sub> and CaO	d) None of these
--	--------------------------	---------------------------	------------------

136) Organelle of symbiotic origin is .

a) Cell wall	b) Cell membrane	✓c) Mitochondria	d) Vacuole
--------------	------------------	------------------	------------

137) The products of photosynthetic light reactions are .

a) ATP and NADH	✓b) ATP , NADPH and O <sub>2</sub>	c) ATP and NADPH	d) ATP and NAD
-----------------	------------------------------------	------------------	----------------

138) Kindgom plantae mainly includes eukaryotic , autotrophic , multicellular , non motile organisms which develop from \_\_\_\_\_ .

a) Zygote	✓b) Embryo	c) Seed	d) None of these
-----------	------------	---------	------------------

139) Cotton is a pure .

✓a) Cellulose	b) Polysaccharide	c) Cellulose	d) Both a & b
---------------	-------------------	--------------	---------------

140) Sometimes it so happens that certain plants , when cut , purned , tapped or otherwise wounded , show a flow of sap from the cut ends it is called .

✓a) Bleeding	b) Imbition	c) Transpiration	d) None of these
--------------	-------------	------------------	------------------

141) Reptiles like amphibians are cold blooded ( poikilothermic ) and \_\_\_\_\_ in winter .

a) Warm blooded	✓b) Hibernate	c) Active	d) None of these
-----------------	---------------	-----------	------------------

142) Blood of arthropoda is .

a) Green Colour	b) Red Colour	c) Brown Colour	✓d) Colourless
-----------------	---------------	-----------------	----------------

143) In 1969 , the five kingdom system was proposed by .

a) Robert Koch	b) Robert Hooke	✓c) Robert Whittaker	d) Robert Brown
----------------	-----------------	----------------------	-----------------

144) The viral genome is surrounded by a protein coat , the .

a) Capsule	b) Envelope	✓c) Capsid	d) Capsomeres
------------	-------------	------------	---------------

145) The phage which causes lysis of the host cell is known as or virulent phage .

✓a) Lytic	b) Lotic	c) Lentic	d) Lysogenic
-----------	----------	-----------	--------------

146) Trypanosoma is an example of .



a) Actinopods	b) Apicomplexans	✓c) Zooflagellates	d) Ciliates
---------------	------------------	--------------------	-------------

147) Asexual Reproduction in yeasts occurs by .

a) Conidia	b) Fragmentation	✓c) Budding	d) Resting Spores
------------	------------------	-------------	-------------------

148) The ions involved in the opening and closings of stomata are .

a) Sodium	b) Calcium	✓c) Potassium	d) Magnesium
-----------	------------	---------------	--------------

149) Lipids are insoluble in .

✓a) Water	b) Chloroform	c) Alcohol	d) Carbon tetra chloride
-----------	---------------	------------	--------------------------

150) In saprobes , certain midified hyphae that anchor the fungus to the substrate are called .

✓a) Sporangiphores	b) Stolons	c) Conidiophores	d) Rhizoids
--------------------	------------	------------------	-------------

151) Atrioventricular valve present in left side of heart is .

✓a) Tricuspid	b) Bicuspid	c) Pulmonary	d) Semilunar
---------------	-------------	--------------	--------------

152) Tracheophytes are called vascular plants because of the presence of \_\_\_\_\_ .

a) Spore	b) Gamete	✓c) Vascular tissue	d) None of these
----------	-----------	---------------------	------------------

153) The two centriole are usually placed at \_\_\_\_\_ to each other .

a) Opposite	b) Parallel	✓c) Right angle	d) None of these
-------------	-------------	-----------------	------------------

154) Cristae are found in .

a) Golgi complex	b) Chloroplast	c) Endoplasmic	✓d) Mitochondria
------------------	----------------	----------------	------------------

155) Three dimensional globular protein is

a) Starch	b) Glucose	c) Antibiotic	✓d) Enzyme
-----------	------------	---------------	------------

156) Carnivorous plants live in soils that are deficient in

a) Water	b) Oxygen	✓c) Nitrogen	d) Iron
----------	-----------	--------------	---------

157) Haemoglobin in man increase the oxygen carrying capacity of the blood to about \_\_\_\_\_ .

a) 20 times	b) 50 times	✓c) 75 times	d) None of these
-------------	-------------	--------------	------------------

158) Which metal atom is present in chlorophyll ?

a) Cu	b) Fe	✓c) Mg	d) K
-------	-------	--------	------

159) Vacuoles functions as sites for the storage of \_\_\_\_\_ and cell products or metabolic intermediates .

a) Waste of cell	✓b) Water	c) Food	d) None of these
------------------	-----------	---------	------------------

160) The tentative explanation of observation.

✓a) Hypothesis	b) Law	c) Deduction	d) Theory
----------------	--------	--------------	-----------

161) Which of the following pairs of structure – function is mismatched ?

a) Ribosomes proteins synthesis	✓b) Golgi muscle contraction	c) Nucleolus ribosomes production	d) Lysosome intracellular digestion
---------------------------------	------------------------------	-----------------------------------	-------------------------------------



162) In sponges asexual reproduction takes place by budding . The internal buds are called

a) Globules	✓b) Gemmules	c) Endosperm	d) Cyst
-------------	--------------	--------------	---------

163) Most abundant carbohydrate in nature is .

a) Starch	b) Glycogen	✓c) Cellulose	d) Agar
-----------	-------------	---------------	---------

164) The active site of the enzyme is made up of two definite regions i.e., the binding site and the

a) Non-binding site	b) Non-catalytic site	c) Inactive site	✓d) Catalytic site
---------------------	-----------------------	------------------	--------------------

165) An ovule is an integumented in dehiscent .

a) Microporangium	✓b) Megasporangium	c) Sporangium	d) Seed
-------------------	--------------------	---------------	---------

166) One of the following is organelle of symbiotic origin .

✓a) Chloroplast	b) Endoplasmic reticulum	c) Golgi complex	d) Ribosome
-----------------	--------------------------	------------------	-------------

167) Cohesion tension theory is one of the most important theories proposed by \_\_\_\_\_ .

a) Kochland	b) Robert Whittaker	✓c) Dixon	d) None of these
-------------	---------------------	-----------	------------------

168) Prokaryotes include blue – green algae and .

a) Viruses	✓b) Bacteria	c) Protozoans	d) Protists
------------	--------------	---------------	-------------

169) The classes Amphibia , Reptilia , Aves and Mammalian are included in super class .

a) Pisces	✓b) Tetrapoda	c) Cephalopoda	d) Molluscs
-----------	---------------	----------------	-------------

170) Control blood pressure by regular \_\_\_\_\_ and \_\_\_\_\_ .

a) Eat , sleep	b) Walk and eat	✓c) Walk and exercise	d) None of these
----------------	-----------------	-----------------------	------------------

171) Drosophila melanogaster is the biological name of .

a) Butterfly	✓b) Fruit fly	c) Housefly	d) Tsetse fly
--------------	---------------	-------------	---------------

172) Amino acids are linked to each other by .

a) Ester bond	b) Glycosidic	c) Hydrophobic	✓d) Peptide bond
---------------	---------------	----------------	------------------

173) All have open blood circulatory system except?

✓a) Octopus	b) Snail	c) Insects	d) Calms
-------------	----------	------------	----------

174) The NADPH molecule will produce reducing power for the sugar in the .

a) Chemiosmosis	b) Cyclic phosphorylation	✓c) Calvin cycle	d) Electron transport chain
-----------------	---------------------------	------------------	-----------------------------

175) Enzyme lowers down the energy of .

a) Kinetic	b) Potential	✓c) Activation	d) Ionic
------------	--------------	----------------	----------

176) Primarily involved in conjugation between bacterial cell .

a) Flagella	b) Slime	c) Capsule	✓d) Pili
-------------	----------	------------	----------

177) Proteins are synthesized by .



a) Polysome	b) Nucleosome	c) Lysosome	✓d) Ribosome
-------------	---------------	-------------	--------------

178) The tsetse fly of African countries transmits trypanosome, the cause of .

✓a) Sleeping sickness	b) Measles	c) Lung infection	d) Malaria
-----------------------	------------	-------------------	------------

179) The various cellular parts separate out in different layers depending upon their size and \_\_\_\_\_, and density of the medium .

a) Height	b) Length	c) Weight	✓d) None of these
-----------	-----------	-----------	-------------------

180) Asexual reproduction in bacteria occurs by .

a) Conjugation	b) Transduction	c) Transformation	✓d) Binary Fission
----------------	-----------------	-------------------	--------------------

181) Most abundant protein on earth is .

✓a) Rubisco	b) Haemoglobin	c) Albumin	d) Fibrinogen
-------------	----------------	------------	---------------

182) In the lytic cycle of a bacteriophage, the host DNA is .

a) Replicated	✓b) Digested into its nucleotides	c) Turned off by a protein coat	d) Turned on by removal of a protein coat
---------------	-----------------------------------	---------------------------------	---

183) The size of Parvovirus is .

a) 100 nm	✓b) 20 nm	c) 250 nm	d) 75 nm
-----------	-----------	-----------	----------

184) Chimpanzee has the \_\_\_\_\_ number of chromosomes .

a) 44	b) 46	c) 64	✓d) 48
-------	-------	-------	--------

185) A fungal hypha / cell having 2 nuclei of different genetic types is called .

a) Dikaryotic	b) Heterokaryotic	✓c) Both a & b	d) None of these
---------------	-------------------	----------------	------------------

186) The correct sequence of cytochrome in electron transport chain is .

✓a) b, c, a, a <sub>3</sub>	b) b, c, a <sub>3</sub> , a	c) a <sub>3</sub> , a, c, b	d) a, a <sub>3</sub> , b, c
-----------------------------	-----------------------------	-----------------------------	-----------------------------

187) Spiracles are found in .

✓a) Cockroach	b) Earthworm	c) Leech	d) Fish
---------------	--------------	----------	---------

188) What is unrelated to light reactions ?

a) It can occur in light only	b) ATP is produced in it	c) NADPH is produced in it	✓d) It can occur in dark
-------------------------------	--------------------------	----------------------------	--------------------------

189) During \_\_\_\_\_ the tissues are homogenized or disrupted with special instruments .

a) Catalysis	✓b) Cell fractionation	c) Centrifugation	d) None of these
--------------	------------------------	-------------------	------------------

190) Algae in which is differentiated into blades, stipes and holdfast belong to .

a) Golden algae	b) Diatoms	✓c) Kelps	d) Green algae
-----------------	------------	-----------	----------------

191) Respiration means to exchange of respiration gases (CO<sub>2</sub> and O<sub>2</sub>) between the organism and its environment . The exchange is called \_\_\_\_\_ .



a) Internal respiration	b) External respiration	c) Both a and b	✓d) None
-------------------------	-------------------------	-----------------	----------

192) Some algae are edible such as .

a) Diatoms	✓b) Kelps	c) Chlorella	d) Mushrooms
------------	-----------	--------------	--------------

193) One of the following is not insectivorous plant .

a) Venus – fly trap	✓b) Cuscuta	c) Sundew	d) Pitcher plant
---------------------	-------------	-----------	------------------

194) The plasma proteins maintain colloid osmotic pressure of the blood .

a) 25 %	✓b) 75 %	c) 10 %	d) 28 %
---------	----------	---------	---------

195) Example of Apicomplexans is .

a) Vorticella	b) Sentor	✓c) Plasmodium	d) Amoeba
---------------	-----------	----------------	-----------

196) A liter of H<sub>2</sub>O contain of oxygen .

✓a) 10	b) 20	c) 30	d) 40
--------	-------	-------	-------

197) Absorption of blue light is maximum at.

✓a) 430 nm	b) 380 nm	c) 750 nm	d) 670 nm
------------	-----------	-----------	-----------

198) Genus for corn plant is .

✓a) Zea	b) Cassia	c) Allium	d) Solanum
---------	-----------	-----------	------------

199) Carlous Linnaeus took the scientific name from .

a) Greek word	b) Arabic word	✓c) Latin word	d) Urdu word
---------------	----------------	----------------	--------------

200) The amino acids are mainly different from each other due to the type and nature of .

✓a) R-group	b) Amino group	c) Carboxyl group	d) Peptide bond
-------------	----------------	-------------------	-----------------

201) The middle lamella is first to be formed in between .

✓a) Primary walls	b) Secondary walls	c) Tertiary walls	d) Quaternary walls
-------------------	--------------------	-------------------	---------------------

202) The infectious proteins are .

a) Viruses	b) Virious	✓c) Prions	d) Peptones
------------	------------	------------	-------------

203) Factory of ribosomes synthesis is .

✓a) Nucleolus	b) Endoplasmic reticulum	c) Cytoplasm	d) Lysosomes
---------------	--------------------------	--------------	--------------

204) Example of soil dwelling carnivorous fungus is .

✓a) Arthrobotrys	b) Armillaria	c) Pleurotus	d) Pencillium
------------------	---------------	--------------	---------------

205) Sacks in \_\_\_\_\_ suggested that the water molecules move along the cell walls of xylem vessels due to imbibition.

a) 1974	✓b) 1874	c) 1880	d) 1890
---------	----------	---------	---------

206) Emil Fisher proposed a lock and key model in .

a) 1990	b) 1880	c) 1800	✓d) 1890
---------	---------	---------	----------

207) In one's life , heart contracts about \_\_\_\_\_ without stopping .



a) 3.5 billion times	✓b) 2.5 billion times	c) 3.5 billion	d) 2.5 billion
----------------------	-----------------------	----------------	----------------

208) Which is the anaerobic bacterium

✓a) Spirochete	b) Pseudomonas	c) Campylobacter	d) E.Coli
----------------	----------------	------------------	-----------

209) Platelets are fragments of large cells called .

a) Microkaryocytes	b) Erythrocytes	✓c) Megakaryocytes	d) Leucocytes
--------------------	-----------------	--------------------	---------------

210) Trypanosoma is an example of .

a) Apicomplexans	✓b) Zooflagellates	c) Actionopods	d) Ciliates
------------------	--------------------	----------------	-------------

211) The Optimum temperature of human body enzyme is.

a) 27 C <sup>0</sup>	b) 47 C <sup>0</sup>	✓c) 37 C <sup>0</sup>	d) 57 C <sup>0</sup>
----------------------	----------------------	-----------------------	----------------------

212) In Protostomes cleavage is .

a) Spirral	b) Rdial	c) Determinate	✓d) Both a & c
------------	----------	----------------	----------------

213) The volume of the phage is as compared to the host is about .

a) 1/10	b) 1/100	✓c) 1/1000	d) 1/10000
---------	----------	------------	------------

214) Which one of following is not a Lipid ?

a) Rubber	✓b) Chitin	c) Cutin	d) Cholesterol
-----------	------------	----------	----------------

215) A structure found attached to membranes in cell . It consists of two parts . Name it .

a) Golgi Apparatus	b) Mitochondria	c) Lysosome	✓d) Ribosome
--------------------	-----------------	-------------	--------------

216) The megaporophylls bearing ovules are not folded and joined at the margins to form an ovary in .

a) Filicineae	b) Dicotyledonae	c) Monocotyledonae	✓d) Gymnospermae
---------------	------------------	--------------------	------------------

217) E. coli of fungi are the

a) Rusts	b) Brown mold	c) Green mold	✓d) Yeasts
----------	---------------	---------------	------------

218) Pigs are reservoirs to .

a) Hepatitis A	b) Hepatitis B	✓c) Hepatitis E	d) Hepatitis D
----------------	----------------	-----------------	----------------

219) The most common fuel used by the cell to provide energy is :

✓a) Glucose	b) ATP	c) Lactic acid	d) Amino acid
-------------	--------	----------------	---------------

220) The sub class eutheria includes \_\_\_\_\_ .

a) Mammals	✓b) Placental mammals	c) Repriles	d) Birds
------------	-----------------------	-------------	----------

221) The dark reaction occurs in

a) Cytoplasm	b) Chloroplast	c) Stroma	✓d) Grana
--------------	----------------	-----------	-----------

222) Phylogeny describes a species .



a) Morphological similarities with other species	✓b) Evolutionary history	c) Reproductive compatibilities with other species	d) Geographical distribution
--	--------------------------	--	------------------------------

223) Lymph nodes are present in the \_\_\_\_\_, axilla and groin humans .

a) Chest region	b) Legs	✓c) Neck region	d) None of these
-----------------	---------	-----------------	------------------

224) Genetically engineered vaccine is not available for .

✓a) HCV	b) HBV	c) HAV	d) Serum hepatitis
---------	--------	--------	--------------------

225) Peptide bond is a .

✓a) C-N link	b) C-O link	c) N-H link	d) C-H link
--------------	-------------	-------------	-------------

226) Reserve food material in Cyanobacteria is

a) Starch	✓b) Glycogen	c) Fats	d) All of these
-----------	--------------	---------	-----------------

227) Closed circulatory system have respiratory pigment .

a) Haemo cymin	✓b) Haemoglobin	c) Both a & b	d) None of these
----------------	-----------------	---------------	------------------

228) Blood contains \_\_\_\_\_ oxygen when haemoglobin is 98% saturated per 100 ml of blood .

✓a) 19.6 ml	b) 18.6 ml	c) 17.6 ml	d) 16.6 ml
-------------	------------	------------	------------

229) Mammals became dominant in which period ?

✓a) Cenozoic	b) Jurassic	c) Devonian	d) Ordovician
--------------	-------------	-------------	---------------

230) During photorespiration , glycine is converted into serine in the .

✓a) Mitochondria	b) Ribosome	c) Golgi Bodies	d) Chloroplast
------------------	-------------	-----------------	----------------

231) Trypanosoma causes the disease .

a) Malaria	✓b) Sleeping	c) Sickness	d) All of these
------------	--------------	-------------	-----------------

232) Photosynthesis is a \_\_\_\_\_ process .

✓a) Redox	b) Oxidize	c) Both a & b	d) None of these
-----------	------------	---------------	------------------

233) Lichens are very good \_\_\_\_\_ of air quality .

a) Bioremediation	✓b) Bioindicators	c) Both a & b	d) None of these
-------------------	-------------------	---------------	------------------

234) Cassia fistula is the scientific name for .

✓a) Amaltas	b) Golden shower	c) Kikar	d) Argvad
-------------	------------------	----------	-----------

235) Heterotrophic organisms that are absorptive in their nutritional mode are .

a) Algae	b) Protists	c) Animals	✓d) Fungi
----------	-------------	------------	-----------

236) Production of two types of gametes is called .

a) Homogamy	b) Heterogamy	c) Sporophyte	✓d) Gametophyte
-------------	---------------	---------------	-----------------

237) After fertilization is changed into a seed .



a) Fruit	b) Flower	✓c) Ovule	d) Ovary
----------	-----------	-----------	----------

238) The causative agent of African sleeping sickness is

a) Tse - tse fly	b) Trichonymphas	✓c) Trypanosoma	d) Mosquito
------------------	------------------	-----------------	-------------

239) Which of the one in the following is a prokaryote

a) Amoeba	b) Algae	c) Fungi	✓d) Blue green algae
-----------	----------	----------	----------------------

240) A large regional community primarily determined by climate is called as.

✓a) Biome	b) Biosphere	c) Population	d) Community
-----------	--------------	---------------	--------------

241) Certain electromagnetic radiations below 300 nm are affective in killing of .

a) Plants	b) Herbs weeds	c) Protists	✓d) Microorganisms
-----------	----------------	-------------	--------------------

242) Bacteriophage meaning .

✓a) Bacteria Eater	b) Bacteria killer	c) Bacteria spreading	d) None of these
--------------------	--------------------	-----------------------	------------------

243) An enzyme with its co-enzyme or prosthetic group removed is designated as .

a) Holoenzyme	✓b) Apoenzyme	c) Co-enzyme	d) Activator
---------------	---------------	--------------	--------------

244) Which of the following is not present in protists ?

a) Flagella	b) Cilia	✓c) Embryo	d) None of these
-------------	----------	------------	------------------

245) The group of ancient fish which showed modification of aquatic breathing system by developing lungs are .

a) Trout	b) Skates	✓c) Dipnoi	d) Hagfishes
----------	-----------	------------	--------------

246) The leaves bearing sporangia are called .

a) Sporangiohylls	b) Leaflets	c) Megaphylls	✓d) Sporophylls
-------------------	-------------	---------------	-----------------

247) A spiral and determinate cleavage is that in which the lines or planes of cleavage are \_\_\_\_\_ .

a) Symmetrical	✓b) Not symmetrical	c) Right angle	d) None of these
----------------	---------------------	----------------	------------------

248) Cell wall provides a definite shape to the cell and keeps it \_\_\_\_\_ .

a) Hard	b) Soft	✓c) Rigid	d) Both a & b
---------	---------	-----------	---------------

249) Curved or comma shaped bacteria are called .

✓a) Vibrio	b) Spirillum	c) Spirochetes	d) Bacilli
------------	--------------	----------------	------------

250) Round worms are .

✓a) Pseudocoelomates	b) Acoelomates	c) Coelomates	d) None of these
----------------------	----------------	---------------	------------------

251) The causative agent of African sleeping sickness is .

a) Tse-tse fly	b) Mosquito	✓c) Trypanosoma	d) Trichonymphas
----------------	-------------	-----------------	------------------

252) Which of the following is a modified leaf?

a) Tendril	b) Thorn	✓c) Flower	d) Both b & c
------------	----------	------------	---------------

253) Temperature phage may exist as .



✓a) Prophage	b) Capsid	c) Viriod	d) Retrovirus
--------------	-----------	-----------	---------------

254) Which of the following is not symptom of ergotism ?

a) Psychotic Delusion	b) Convulsion	c) Gangrene	✓d) Indigestion
-----------------------	---------------	-------------	-----------------

255) Which of the following gland is not associated with the human digestive system ?

✓a) Spleem	b) Liver	c) Salivary gland	d) Pancereas
------------	----------	-------------------	--------------

256) Which of the following organelle is involved in location of furrowing during cell division ?

a) Microtubule	✓b) Centriole	c) Microfilament	d) Vacuole
----------------	---------------	------------------	------------

257) Which of the following cell / structures are associated with asexual reproduction in fungi .

a) Ascospores	✓b) Conidia	c) Zygosporos	d) Basidiospores
---------------	-------------	---------------	------------------

258) Enzymes , antibodies , hormones and hemoglobin are examples .

a) Carbohydrates	✓b) Globular proteins	c) Fibrous proteins	d) Lipids
------------------	-----------------------	---------------------	-----------

259) Which of the following is electron carrier ?

a) Plastocyanin	b) Cytochromes	c) Plastoquinone	✓d) All of these
-----------------	----------------	------------------	------------------

260) Hemoglobin is a .

a) Fibrous proteins	✓b) Globular proteins	c) Coiled proteins	d) Double coiled protein
---------------------	-----------------------	--------------------	--------------------------

261) It is now estimated that \_\_\_\_\_ of lung cancer is caused by smoking .

a) 10 %	b) 20 %	✓c) 90 %	d) 80 %
---------	---------	----------	---------

262) Cisternae are associated with .

✓a) ER	b) Mitochondria	c) Nucleus	d) Chloroplast
--------	-----------------	------------	----------------

263) Haem portion of hemoglobin contains an atom of .

a) Magnesium $Mg^{++}$	b) Phosphorus $K^{++}$	c) Calcium $Ca^{++}$	✓d) Iron $Fe^{++}$
------------------------	------------------------	----------------------	--------------------

264) The first action spectrum was obtained by.

✓a) T.W.Engelmann	b) Melvin Calvin	c) Van Neil	d) Ernst Haeckel
-------------------	------------------	-------------	------------------

265) Heart burn is due to back flash of acidic chyme into .

a) Heart	b) Stomach	c) Oral cavity	✓d) Oesophagus
----------	------------	----------------	----------------

266) The process of photosynthesis consist \_\_\_\_\_ parts .

a) 1	✓b) 2	c) 3	d) 4
------	-------	------	------

267) Smoking especially in young adults is the most potential threat of \_\_\_\_\_ .

✓a) Lung cancer	b) Throat cancer	c) Kidney cancer	d) None of these
-----------------	------------------	------------------	------------------

268) An ascus is to ascomycetes as is a \_\_\_\_\_ to basidiomycetes .

a) Basidiospore	b) Basidiocarp	✓c) Basidium	d) Haustorium
-----------------	----------------	--------------	---------------

269) One or small diploid micronodei of ciliates function in .



a) Sexual process	✓b) Sheath	c) Pellicle	d) Cuticle
-------------------	------------	-------------	------------

270) Which plants are said to be the amphibians of the plant world ?

a) Angiosperms	✓b) Bryophytes	c) Trachaeophytes	d) Spermatophytes
----------------	----------------	-------------------	-------------------

271) The dew drops on the tip of the grass leaves involves the phenomenon .

a) Transpiration pull	b) Bleeding	✓c) Guttation	d) Imbition
-----------------------	-------------	---------------	-------------

272) Which one of the following is a correct sequence in biological methods ?

a) Observation - Hypothesis - Law - Theory	✓b) Observation - Hypothesis - deduction - Testing of deduction	c) Hypothesis - Observation - Deduction - Testing of deduction	d) Law - Theory - Deduction - Observation
--	---	--	---

273) The term gymnospermae literally means .

a) Enclosed seeded	✓b) Naked seeded	c) Open seeded	d) Seedless
--------------------	------------------	----------------	-------------

274) Insufficient quality or quantity of bile secretions is responsible for causing .

✓a) Dyspepsia	b) Anorexia	c) Piles	d) Bulimia
---------------	-------------	----------	------------

275) Population of different species living in the same Habitat form a.

a) Biome	b) Biospere	c) Ecosystem	✓d) Community
----------	-------------	--------------	---------------

276) During respiratory chain , how many molecules of ATP are produced upon oxidation of one molecule of  $\text{FADH}_2$  ?

a) 1	✓b) 2	c) 3	d) 4
------	-------	------	------

277) Sub - class metatheria are characterized by an abdominal pouch the \_\_\_\_\_ .

a) Placental	b) Coelome	✓c) Marsupium	d) None of these
--------------	------------	---------------	------------------

278) Which of the following is not a viral disease?

a) Cowpox	b) Mumps	✓c) Tentanus	d) Small pox
-----------	----------	--------------	--------------

279) Which of the following is not true of guard cells?

a) Present in epidermis	b) Bean like	✓c) Lack chloroplast	d) Kidney shaped
-------------------------	--------------	----------------------	------------------

280) The most common rust fungi are .

a) Ustilago	✓b) Puccinia	c) Penicillium	d) Yeast
-------------	--------------	----------------	----------

281) The protists that live as symbionts in the guts of termites and help in the digestion of dry wood are .

✓a) Trichonymphas	b) Trypanosoma	c) Euglena	d) Vorticella
-------------------	----------------	------------	---------------

282) Species is the basic unit of .

a) Evolution	b) Genetics	c) Ecology	✓d) Classification
--------------	-------------	------------	--------------------

283) Resolution power of a typical compound microscope is.

a) 300X	b) $1.0 \mu\text{m}$	✓c) $2.0 \mu\text{m}$	d) 2-4 Angstorm
---------	----------------------	-----------------------	-----------------

284) \_\_\_\_\_ is the utilization of the products of digestion for production of energy or synthesis of cellular material .



a) Absorption	b) Egestion	✓c) Assimilation	d) None
---------------	-------------	------------------	---------

285) Erthrocytes have only \_\_\_\_\_ pores per nucleus .

a) 2 or 4	✓b) 3 or 4	c) 4 or 5	d) 5 or 6
-----------	------------	-----------	-----------

286) Golgi apparatus was discovered by Golgi in .

a) 1889	b) 1896	✓c) 1898	d) 1888
---------	---------	----------	---------

287) The enzyme which are involved in protein synthesis are integral part of .

a) Chromosomes	b) Ribosomes	c) Lysosomes	✓d) Ribosomes
----------------	--------------	--------------	---------------

288) Percentage of carbohydrates in mammalian cell is .

a) 1 %	b) 2 %	c) 3 %	✓d) 4 %
--------	--------	--------	---------

289) Respiratory organs in fish are .

a) Lungs	✓b) Gills	c) Skin	d) Fins
----------	-----------	---------	---------

290) One complete heart beat lasts for .

✓a) 0.8 seconds	b) 0.4 seconds	c) 0.15 seconds	d) 0.2 seconds
-----------------	----------------	-----------------	----------------

291) All bryophytes ( mosses , liverworts , and hornworts ) share certain characteristics . these are

✓a) Reproductive cells in protective chambers and a waxy cuticle	b) A waxy cuticle , true leaves , and reproductive cells in protective chambers	c) Vascular tissues , true leaves , and a waxy cuticle	d) Reproductive cells in protective chambers and vascular tissues
--	---	--	---

292) The heart is enclosed in a double membranous sac, the .

a) Pleural Cavity	b) Thoracic Cavity	c) Abdominal Cavity	✓d) Pericardial Cavity
-------------------	--------------------	---------------------	------------------------

293) Mad cow infection and mysterious brain infection in man are caused by .

a) Bacteria	b) Fungus	✓c) Prions	d) Viron
-------------	-----------	------------	----------

294) The exchange of gases ( CO<sub>2</sub> and O<sub>2</sub> ) between the organism and its environment is called .

✓a) Respiration	b) Cellular respiration	c) External respiration	d) Anaerobic respiration
-----------------	-------------------------	-------------------------	--------------------------

295) Blood in the lungs is separated from the alveolar air by extremely thin membranes of the \_\_\_\_\_ and alveoli .

a) Villi	b) Bronchi	✓c) Capillaries	d) Veins
----------	------------	-----------------	----------

296) The dark reaction consists of .

a) Carbon fixation	b) Reduction	c) Regeneration	✓d) All of these
--------------------	--------------	-----------------	------------------

297) Viruses are 10 to 1000 times than most ,

a) Cyanobacteria	b) Yeast	✓c) Bacteria	d) Euglena
------------------	----------	--------------	------------

298) The tse - tse fly of African countries transmits Trypanosoma . That is cause of

a) Sleeping sickness	b) Skin disease	c) Lung infection	✓d) Both a & b
----------------------	-----------------	-------------------	----------------

299) Cloning is a technique of achieving .



a) Hygienic aims	b) Transgenic aims	✓c) Eugenic aims	d) Therapeutic aims
------------------	--------------------	------------------	---------------------

300) The shrinkage of protoplast of a cell .

a) Incipient plasmolysis	b) Deplasmolysis	c) Guttation	✓d) Plasmolysis
--------------------------	------------------	--------------	-----------------

301) Rust disease is caused by .

✓a) Puccinia	b) Ustilago	c) Rhizopus	d) Yeast
--------------	-------------	-------------	----------

302) The reasoning that moves from general to specific is .

✓a) Deductive	b) Inductive	c) Scientific	d) Theoretical
---------------	--------------	---------------	----------------

303) Photosynthetic protists , carryin out probably 50 to 60 percent of all the photysynthesis on earth are .

a) Plants	✓b) Algae	c) Cynobacteria	d) Oomycotes
-----------	-----------	-----------------	--------------

304) Root nodules are present in .

a) All photosynthetic plants	b) Gymnosperms	c) Non – leguminous plants	✓d) Leguminous planst
------------------------------	----------------	----------------------------	-----------------------

305) Lichens are mutualistic symbiotic associations between .

a) Fungi & bryophytes	b) Fungi & vascular plants	✓c) Fungi & photoautotrophs	d) Fungi & mosses
-----------------------	----------------------------	-----------------------------	-------------------

306) Antigen or immunogen is a foreign substance , often a protein which stimulates the formation of \_\_\_\_\_ .

✓a) Antibodies	b) Antiseptic	c) Both a & b	d) None of these
----------------	---------------	---------------	------------------

307) Temperature cause closure of stomata.

a) 30-40 C <sup>0</sup>	b) 30-35 C <sup>0</sup>	c) 25-35 C <sup>0</sup>	✓d) 40-45 C <sup>0</sup>
-------------------------	-------------------------	-------------------------	--------------------------

308) The example of sub – phylum cephalochordate is .

a) Molgula	✓b) Amphioxus	c) Mytilis	d) Cotylosaurs
------------	---------------	------------	----------------

309) The fusion nucleus then form \_\_\_\_\_ endosperm cell .

a) Diploid	b) Haploid	✓c) Triploid	d) None of these
------------	------------	--------------	------------------

310) One of the following is a micromolecule.

a) Starch	b) Protein	c) Cellulose	✓d) Glucose
-----------	------------	--------------	-------------

311) Aquatic Arthropods respire through .

a) Spiracles	b) Lungs	✓c) Gills	d) Skin
--------------	----------	-----------	---------

312) In mouth cavity of molluses there is a resping tongue like \_\_\_\_\_ is present .

✓a) Radula	b) Plannula	c) Mantle	d) None of these
------------	-------------	-----------	------------------

313) pH of fresh saliva is nearly

✓a) 6	b) 7	c) 8	d) 9
-------	------	------	------

314) Which of the following are being used as bio – pesticides ?



✓a) Bacteria	b) Fungi	c) Viruses	d) Algae
--------------	----------	------------	----------

315) Which of the following is a primary bacterial cell wall function ?

a) Transport	b) Support	c) Motility	✓d) Adhesion
--------------	------------	-------------	--------------

316) Oomycetes are close relatives of the .

a) Algae	✓b) Fungi	c) Protozoa	d) Bacteria
----------	-----------	-------------	-------------

317) Internal morphology is also called .

a) Physiology	✓b) Anatomy	c) Histology	d) Paleontology
---------------	-------------	--------------	-----------------

318) The resolution of human naked eye is.

✓a) 1 mm	b) 1 um	c) 1 nm	d) 1 cm
----------	---------	---------	---------

319) A rasping tongue like radula having horny teeth is present in .

a) Sponges	b) Coelenterates	c) Annelids	✓d) Molluscs
------------	------------------	-------------	--------------

320) Members of Basidiomycota are commonly called .

a) Splitting fungi	b) Morels	✓c) Mushrooms	d) Molds
--------------------	-----------	---------------	----------

321) The study of life in seas and oceans comes under the heading of .

a) Ocean biology	b) Freshwater biology	c) Sea biology	✓d) Marine biology
------------------	-----------------------	----------------	--------------------

322) Roots bear a dense cluster of tiny hair like structures which are extensions of .

✓a) Epidermal cells	b) Pericycle cells	c) Endodermal cells	d) Cortical cells
---------------------	--------------------	---------------------	-------------------

323) The potential source of chemical energy for cellular activities.

✓a) C-H bond	b) C-O bond	c) C-N bond	d) C-C bond
--------------	-------------	-------------	-------------

324) Test of foraminifera is made of .

a) Silica	b) Calcium	✓c) Calcium phosphate	d) Chitin
-----------	------------	-----------------------	-----------

325) Which of the following is true about mammals ?

a) They have right aortic arch only	b) They have left and right aortic arches	✓c) They have left aortic arch only	d) They do not have aortic arch
-------------------------------------	---	-------------------------------------	---------------------------------

326) Peptidoglycans absent in .

a) Eubacteria	✓b) Archaeobacteria	c) Cyanobacteria	d) Gram negative bacteria
---------------	---------------------	------------------	---------------------------

327) Rapid phase of growth of bacteria is .

a) Lag phase	✓b) Log phase	c) Stationary phase	d) Death / decline phase
--------------	---------------	---------------------	--------------------------

328) Cell wall of Archaeobacteria do not contain .

✓a) Peptidoglycan	b) Cellulose	c) Chitin	d) Cutin
-------------------	--------------	-----------	----------

329) Cell wall is absent in .



a) E.Coli	✓b) Mycoplasma	c) Vibrio	d) Spriochete
-----------	----------------	-----------	---------------

330) Lenticels are aerating pores formed in the lungs of .

✓a) Bark	b) Epidermis	c) Endodermis	d) Pericycle
----------	--------------	---------------	--------------

331) The reversible inhibitors usually constitute .

a) Strong linkage with enzyme	b) No linkage with enzyme	✓c) Wear linkage with enzyme	d) Medium linkage with enzyme
-------------------------------	---------------------------	------------------------------	-------------------------------

332) Hollow , nonhelical , filamentous appendages present in bacteria are .

a) Cilia	b) Fimbrie	c) Flagella	✓d) Pili
----------	------------	-------------	----------

333) Which one is a microaerophilic bacterium ?

a) E.coil	b) Spirochete	c) Pseudomonas	✓d) Camphylobacter
-----------	---------------	----------------	--------------------

334) Embedded in the tentacles are numerous stinging cells called \_\_\_\_\_ .

a) Coelenteror	✓b) Mematocyst	c) Gestrovascular cavity	d) None of these
----------------	----------------	--------------------------	------------------

335) Methods of prevention and treatment that have been introduced to control microbial diseases included .

a) Immunization	b) Antisepsis	c) Chemotherapy	✓d) All of these
-----------------	---------------	-----------------	------------------

336) A virion is a .

a) Virus	b) Viral protein	✓c) Viral lysozyme	d) Viral gene
----------	------------------	--------------------	---------------

337) Tuberculosis is caused by \_\_\_\_\_ .

✓a) Mycobacterium tuberculosis	b) Smoking	c) Streptococcus	d) None of these
--------------------------------	------------	------------------	------------------

338) Stroma is a fluid in the chloroplast .

✓a) Thylakoids	b) Intergranum	c) Granum	d) Matrix
----------------	----------------	-----------	-----------

339) Blood acts as a \_\_\_\_\_ to maintain the acid - base balance .

a) Solute	b) Solvent	✓c) Buffer	d) None of these
-----------	------------	------------	------------------

340) Which one of the following is not lipid ?

a) Cholesterol	b) Wax	c) Terpenes	✓d) Keratin
----------------	--------	-------------	-------------

341) Ginkgo belongs to class .

a) Angiospermae	b) Filicineae	✓c) Gymnospermae	d) Anthoceropsidea
-----------------	---------------	------------------	--------------------

342) Sea anemone belongs to phylum .

✓a) Coelentrata	b) Annelida	c) Arthropoda	d) Echoniodermate
-----------------	-------------	---------------	-------------------

343) Nucleotide is formed by the combination of a nucleoside and a .

a) Glutanic acid	b) Hydrochloric acid	c) Butyric acid	✓d) Phosphoric acid
------------------	----------------------	-----------------	---------------------

344) In bacterial cells the water percentage is .



✓a) 70 %	b) 40 %	c) 60 %	d) 50 %
----------	---------	---------	---------

345) The enzyme with optimum pH = 7.60 is.

a) Arginase	✓b) Catalase	c) Enterokinase	d) Sucrase
-------------	--------------	-----------------	------------

346) During photorespiration , glycolate diffuses into the membrane bounded organelle named as .

a) Mitochondria	b) Ribosome	✓c) Peroxisome	d) Golgi Bodies
-----------------	-------------	----------------	-----------------

347) Which chloropylls are found in algae and photosynthetic plants ?

a) A and b	b) c and b	c) a and c	✓d) a , b , c and d
------------	------------	------------	---------------------

348) Amphibious plants belong to group .

a) Angiospermae	✓b) Bryophyta	c) Pteridophyta	d) Phycopsida
-----------------	---------------	-----------------	---------------

349) Viruses can reproduce only in living host are known as .

✓a) Obligate intracellular parasites	b) Facultative intracellular parasites	c) Obligate extracellular parasites	d) Facultative extracellular parasites
--------------------------------------	--	-------------------------------------	--

350) During unfavourable conditions , slime mold forms , resistant haploid spores by meiosis within stalked structures called .

a) Conidia	✓b) Sporangia	c) Asci	d) Basidia
------------	---------------	---------	------------

351) An outer flexible covering of ciliates is .

a) Cell wall	✓b) Pellicle	c) Sheath	d) Cuticle
--------------	--------------	-----------	------------

352) Which one is an example of non-vascular plants?

a) Rhynia	b) Psilotum	c) Adiantum	✓d) Marchantia
-----------	-------------	-------------	----------------

353) Cell wall in oomycetes is chemically composed of .

✓a) Cellulose	b) Chitin	c) Proteins	d) Lignin
---------------	-----------	-------------	-----------

354) Diatoms belongs to phylum .

a) Rhodophyta	b) Phaeophyta	✓c) Chrysophyta	d) Pyrrophyta
---------------	---------------	-----------------	---------------

355) Which of the following is not an attribute of population?

a) Population density	b) Gene frequency	c) Gene flow	✓d) Gene structure
-----------------------	-------------------	--------------	--------------------

356) When the for in immature and young , it is coiled , this pattern of development is called .

a) Nutation	b) Circum nutation	✓c) Circinate veneration	d) Reticulate veneration
-------------	--------------------	--------------------------	--------------------------

357) Which one is an example of foliose lichens ?

a) Ramalina	b) Bacidia	c) Lecanora	✓d) Parmelia
-------------	------------	-------------	--------------

358) Each Ascus comprise Ascospores .

a) 04	✓b) 08	c) 12	d) 03
-------	--------	-------	-------

359) The food is prevented to enter the wind pipe through the courtesy of .



a) Pharynx	✓b) Epiglottis	c) Larynx	d) Glottis
------------	----------------	-----------	------------

360) Mitochondrial matrix contains .

a) DNA only	b) Protein only	✓c) Enzymes , coenzymes , inorganic and organic salts	d) DNA + proteins
-------------	-----------------	---	-------------------

361) Muscles of stomach are of which type .

a) Skeletal	✓b) Smooth	c) Cardiac	d) Voluntary
-------------	------------	------------	--------------

362) All are correct for photosynthesis except .

✓a) It uses oxygen	b) It uses CO <sub>2</sub>	c) It uses water	d) It occurs during daytime
--------------------	----------------------------	------------------	-----------------------------

363) Biological activated protein is

✓a) Enzymes	b) Activators	c) Inhibitors	d) None of these
-------------	---------------	---------------	------------------

364) Which one of the following is not viral disease .

a) Cow pox	b) Mumps	✓c) Tetanus	d) Small pox
------------	----------	-------------	--------------

365) The molecule formed by two amino acids is called .

✓a) Dipeptide	b) Peptide linkage	c) Peptide bond	d) Poly peptide linkage
---------------	--------------------	-----------------	-------------------------

366) The intercellular spaces in the walls of lymph vessels are \_\_\_\_\_ than those of the capillaries of blood vascular system .

✓a) Larger	b) Smaller	c) Both a & b	d) None of these
------------	------------	---------------	------------------

367) Which statement about ATP is not true ?

a) It is used as an energy currency by all cells	✓b) It is formed only under aerobic conditions	c) Some ATP is used to drive synthesis of storage compounds	d) It provides the energy for many different biochemical reactions
--	--	---	--

368) About \_\_\_\_\_ carbon dioxide is carried as bicarbonate ion combined with sodium in the plasma .

a) 80 %	✓b) 70 %	c) 20 %	d) 50 %
---------	----------	---------	---------

369) Respiratory organs in fish are .

a) Lungs	✓b) Gills	c) Skin	d) Fins
----------	-----------	---------	---------

370) \_\_\_\_\_ is employed in treatment of cancer .

a) Gene therapy	b) Gene therapy	c) Chemotherapy and cloning	✓d) Radiotherapy and chemotherapy
-----------------	-----------------	-----------------------------	-----------------------------------

371) Large leaves having divided veins and veinlets with an expanded leaf blade or lamina are known as .

a) Microphylls	✓b) Megaphylls	c) Frond	d) Compound leaf
----------------	----------------	----------	------------------

372) Calvin cycle is also known as .

✓a) C <sub>3</sub> Pathway	b) C <sub>2</sub> Pathway	c) C <sub>4</sub> Pathway	d) C <sub>5</sub> Pathway
----------------------------	---------------------------	---------------------------	---------------------------

373) Parietal cell of linings of human stomach secrete .



a) Mucus	✓b) Hydrochloric acid	c) Pepsinogen	d) Gastrin
----------	-----------------------	---------------	------------

374) All of the insectivorous plants are .

a) Heterotrophs	✓b) Autotrophs	c) Saprotrophs	d) Parasitic
-----------------	----------------	----------------	--------------

375) There is a pair of appendages called chelicerae with claws , two pairs of pedipalps and four pairs of legs in .

a) Insecta	✓b) Arachnida	c) Myriapoda	d) Crustacea
------------	---------------	--------------	--------------

376) Bacteria divided at exponential rate during .

a) Stationary phase	b) Decline phase	✓c) Log phase	d) Log phase
---------------------	------------------	---------------	--------------

377) The diameter of staphylococcus and streptococcus is about .

a) 100 – 200 nm	b) 1.5 – 2 $\mu$	✓c) 0.75 – 1.25 $\mu$	d) 2 – 6 $\mu$
-----------------	------------------	-----------------------	----------------

378) The fungi which obtain their food from organic matter are called .

✓a) Saprotrophs	b) Autotrophs	c) Heterotrophs	d) Parasites
-----------------	---------------	-----------------	--------------

379) The amount of oxygen present in air about .

✓a) 21 to 16	b) 20 to 60	c) 21 to 60	d) 20 to 16
--------------	-------------	-------------	-------------

380) For fixing of three molecules of CO<sub>2</sub> in Clavin cycle , what is needed ?

a) 6 ATP + 9 NADPH	✓b) 9 ATP + 6 NADPH	c) 18 ATP + 9 NADPH	d) 3 ATP + 3 NADPH
--------------------	---------------------	---------------------	--------------------

381) The smallest bacteria are some members of the genus .

a) E.coli	✓b) Mycoplasma	c) Closteridium	d) Pseudomonas
-----------	----------------	-----------------	----------------

382) The animal with exceptionally large brain is .

a) Star fish	✓b) Octopus	c) Sepia	d) Snail
--------------	-------------	----------	----------

383) Length of the duodenum is

a) 20 – 25 cm	✓b) 20 – 25 meters	c) 20 – 25 mm	d) 20 – 25 Km
---------------	--------------------	---------------	---------------

384) If a theory survives and continues to be supported by experimental evidence becomes a .

a) Hypothesis	b) Universal formula	✓c) Scientific law	d) Deduction
---------------	----------------------	--------------------	--------------

385) Glycolysis can be divided , for convenience into two phase .

a) Oxidative and reductive phase	b) Preparatory and reductive phase	✓c) Preparatory and oxidative phase	d) Two oxidative phase
----------------------------------	------------------------------------	-------------------------------------	------------------------

386) Which of the following is not true about histamine ?

a) Produced by basophills	b) Causes dilation of blood capillaries	c) Cause inflammation	✓d) Released by Eosinophils
---------------------------	---	-----------------------	-----------------------------

387) Oxygen contents of fresh air are .

✓a) 200 ml / litre	b) 100 ml / litre	c) 10 ml / litre	d) 150 ml / litre
--------------------	-------------------	------------------	-------------------

388) Name the carbohydrate which is produced directly during Calvin cycle .



a) Glucose	✓b) G3P	c) Fructose	d) Sucrose
------------	---------	-------------	------------

389) The opening of the windpipe is called \_\_\_\_\_.

a) Epiglottis	✓b) Glottis	c) Bolus	d) None of these
---------------	-------------	----------	------------------

390) Plasmodium ( slime mold ) is a multinucleate mass of cytoplasm that can grow in diameter to .

a) 5 cm	b) 10 cm	c) 20 cm	✓d) 30 cm
---------	----------	----------	-----------

391) Covalently bounded non-protein part is called .

a) Co-enzyme	✓b) Prosthetic group	c) Activator	d) Co-factor
--------------	----------------------	--------------	--------------

392) The process that most likely / directly enables a root hair cell to absorb minerals by active transport and enables a muscle cell to contract cell to contract is .

a) Circulation	b) Excretion	✓c) Respiration	d) Assimilation
----------------	--------------	-----------------	-----------------

393) Dipeptides are broken down into amino acid by .

a) Erypsin	b) Pepsin	✓c) Trypsin	d) Lipase
------------	-----------	-------------	-----------

394) Which of the following is NOT true of guard cells ?

a) They are present in the epidermis of leaf	✓b) They are connected with plasmodesmata with other epidermal cells	c) They contain chloroplasts	d) They are kidney shaped
--	--	------------------------------	---------------------------

395) An inhibitor react with enzyme but not transformed into \_\_\_\_\_.

a) Enzyme	✓b) Product	c) Co-enzyme	d) None of these
-----------	-------------	--------------	------------------

396) In the binomial system of taxonomy , developed during the 18th century by C. Linnaeus , the first word of an organism's name is its .

a) Species	✓b) Genus	c) Race	d) Family
------------	-----------	---------	-----------

397) Cell membrane has 60 - 80 % .

a) Lipids	✓b) Proteins	c) Carbohydrates	d) Vitamins
-----------	--------------	------------------	-------------

398) Misuse of antibiotic such as penicillin can cause .

✓a) Allergic reactions	b) Headache	c) Deafness	d) Mental retardness
------------------------	-------------	-------------	----------------------

399) There is a delay of approximately \_\_\_\_\_ in conductor from the S - A node to A - V node , permitting atrial systole to be a completed before ventricular systole begins .

a) 0.1 sec	b) 0.5 sec	✓c) 0.15 sec	d) None of these
------------	------------	--------------	------------------

400) What is not true for microtubules ?

a) Formed of tubulin	b) Cilia are derived from them	c) Play role in spindle formation	✓d) Branched
----------------------	--------------------------------	-----------------------------------	--------------

401) The disease caused by a fungus is .

✓a) Ring worm	b) Teanus	c) Polio	d) Small pox
---------------	-----------	----------	--------------



402) A hypothesis was first proposed by Ernst Munch in \_\_\_\_\_.

a) 1940	b) 1930	c) 1980	✓d) 1910
---------	---------	---------	----------

403) Which one of the following is not a carbohydrate ?

a) Starch	b) Glycogen	c) Cellulose	✓d) Wax
-----------	-------------	--------------	---------

404) Which statement about oxidative phosphorylation is not true ?

✓a) Its functions can be served equally well by fermentation	b) In eukaryotes it takes place in mitochondrion	c) It is brought about by chemiosmotic mechanism	d) It is the formation of ATP during operation of respiratory chain
--	--	--	---

405) The length of Jejunum is about .

a) 2.8 m	✓b) 2.4 m	c) 2 m	d) 1.4 m
----------	-----------	--------	----------

406) What if you add more substrate to already occurring enzymatic reaction and it has no effect on the rate of reaction? What is the form given for this situation?

✓a) Saturation	b) Composition	c) Denaturation	d) Inhibition
----------------	----------------	-----------------	---------------

407) The branch of Biology which deals with the study of environment relations of organisms is called .

a) Morphology	✓b) Ecology	c) Evolution	d) Zoogeography
---------------	-------------	--------------	-----------------

408) Which of the following processes cause substances to move across membranes without the expenditure of cellular energy ?

✓a) Endocytosis	b) Active transport	c) Diffusion	d) None of these
-----------------	---------------------	--------------	------------------

409) Ascospores are produced by meiosis inside their characteristic sac like structures called .

a) Basidia	b) Conidia	✓c) Asci	d) Sporangia
------------	------------	----------	--------------

410) How many species of animals are known ?

a) Half million	✓b) One and a half million	c) One million	d) Two million
-----------------	----------------------------	----------------	----------------

411) A plant requires nitrogen and sulfur for its .

a) Cell wall	b) Enzymes	c) Starch deposits	✓d) DNA replication
--------------	------------	--------------------	---------------------

412) What is not produced during cyclic electron flow ?

a) Oxygen	b) ATP	c) NADPH	✓d) Both a & c
-----------	--------	----------	----------------

413) Which of the following amounts of bases are more likely to be found in an organism ?

a) Adenine 30.9 % and cytosine 30.7 %	b) Cytosine 19.8 % and thymine 20.0 %	c) Guanine 27.5 % and adenine 27.8 %	✓d) Adenine 32 % and thymine 31.9 %
---------------------------------------	---------------------------------------	--------------------------------------	-------------------------------------

414) The capillaries are the sites where the material are exchanged between the blood and \_\_\_\_\_.

✓a) Body tissues	b) Liver	c) Kidney	d) None of these
------------------	----------	-----------	------------------

415) Influenza viruses are .



✓a) Enveloped RNA viruses	b) DNA enveloped viruses	c) None enveloped RNA viruses	d) DNA naked viruses
---------------------------	--------------------------	-------------------------------	----------------------

416) All the chemical reactions taking place within a cell are collectively called .

a) Anabolism	b) Catabolism	✓c) Metabolism	d) Commensalism
--------------	---------------	----------------	-----------------

417) Ceratium belongs to group of algae called .

a) Diatoms	b) Red Algae	c) Brown Algae	✓d) Dinoflagellates
------------	--------------	----------------	---------------------

418) The scientific name of Venus – fly trap is .

a) Saracenia pupurea	b) Drosera intermedia	✓c) Dionaea muscipula	d) Puccinia graminis
----------------------	-----------------------	-----------------------	----------------------

419) First plants to colonize land were .

✓a) Bryophytes	b) Pteridophytes	c) Trachaeophytes	d) Algae
----------------	------------------	-------------------	----------

420) This pacemaker provides continued rhythmic impulses that take over the control of the \_\_\_\_\_.

a) Artries	✓b) Ventriles	c) Veins	d) Capillaries
------------	---------------	----------	----------------

421) Antibodies are produced from .

a) Eosinphils	b) Basophils	c) Monocytes	✓d) Lymphocytes
---------------	--------------	--------------	-----------------

422) Kangaroo belongs to sub – class .

a) Eutheria	✓b) Metatheria	c) Protetheia	d) Megatcria
-------------	----------------	---------------	--------------

423) Length of brown algae range from few centimeters to .

a) 170 meters	✓b) 75 meters	c) 70 meters	d) 75 cm
---------------	---------------	--------------	----------

424) A contractile pumping device .

a) Lung	b) Liver	✓c) Heart	d) Vein
---------	----------	-----------	---------

425) Kingdom Animalia consists of all animals which are \_\_\_\_\_.

a) Unicellular	✓b) Multicellular	c) Both a & b	d) None of these
----------------	-------------------	---------------	------------------

426) Member of subdivision hepaticopsida are commonly called.

a) Horstails	b) Hornworts	c) Club mosses	✓d) Liver worts
--------------	--------------	----------------	-----------------

427) All of the following are related to Nostoc except.

a) Trichome	b) Slimy covering	✓c) Branched filaments	d) Heterocyst
-------------	-------------------	------------------------	---------------

428) Pacemaker is responsible for \_\_\_\_\_ the impulses which trigger the heart beat rate .

✓a) Initiating	b) Terminating	c) Delying	d) None of these
----------------	----------------	------------	------------------

429) Which group is also called imperfect fungi ?

a) Zygomycetes	b) Basidiomycetes	c) Ascomycetes	✓d) Deuteromycetes
----------------	-------------------	----------------	--------------------

430) Small amounts of an \_\_\_\_\_ can accelerate chemical reactions .

a) Protein	b) Lipid	✓c) Enzyme	d) None of these
------------	----------	------------	------------------



431) Most sac - fungi have asci inside macroscopic fruiting bodies called .

a) Basidia	b) Ascospores	c) Ascidia	✓d) Ascocarps
------------	---------------	------------	---------------

432) In radial and indeterminate cleavage the planes of cleavage are symmetrical to the \_\_\_\_\_ .

✓a) Polar axis	b) Central axis	c) Both a & b	d) None of these
----------------	-----------------	---------------	------------------

433) Aspergillus fumigatus causes aspergillosis but only in persons with defective immune system such as .

a) HAV	b) Hepatitis	c) HIV	✓d) AIDS
--------	--------------	--------	----------

434) When oxygen pressure falls below \_\_\_\_\_ mercury , as in many cells and tissues , the oxygen saturation of haemoglobin decreases very sharply .

✓a) 60 mm	b) 40 mm	c) 20 mm	d) None of these
-----------	----------	----------	------------------

435) Chlorophyll a is .

a) Yellow green	✓b) Blue green	c) Orange green	d) Yellow green dark
-----------------	----------------	-----------------	----------------------

436) The respiratory system is most efficient in \_\_\_\_\_ .

a) Man	✓b) Bird	c) Fish	d) Snake
--------	----------	---------	----------

437) Lytic cycle completion occurs about .

a) 15 Min	✓b) 25 Min	c) 35 Min	d) 05 Min
-----------	------------	-----------	-----------

438) The substance which inhibits blood clotting .

✓a) Heparin	b) Histamine	c) Fibrin	d) Albumin
-------------	--------------	-----------	------------

439) Keratin is an example of Fibrous Protein present in .

a) Blood	b) Muscle	c) Bones	✓d) Nail and Hair
----------	-----------	----------	-------------------

440) Citric acid is obtained from .

a) Penicillium	✓b) Aspergillus	c) Sacchromyces	d) Neurospora
----------------	-----------------	-----------------	---------------

441) Mesosomes are internal extensions of the .

a) Cell wall	✓b) Cell membrane	c) Chromatin body	d) Capsule
--------------	-------------------	-------------------	------------

442) The number of chromosomes in normal body cells are .

a) Haploid	✓b) Diploid	c) Monoploid	d) Triploid
------------	-------------	--------------	-------------

443) Which group of fungi is also called club fungi ?

a) Zygomycota	b) Ascomycota	✓c) Basidiomycota	d) Deuteromycota
---------------	---------------	-------------------	------------------

444) Ammonia , a waste product of amino acid metabolism is converted into urea in .

a) Kidney	b) Pancreas	✓c) Liver	d) Lungs
-----------	-------------	-----------	----------

445) In amphibians the necessary requirements to spend their life history are .

a) Land	b) Water	✓c) Both a & b	d) None of these
---------	----------	----------------	------------------

446) Poisons like cyanide , antibiotics , anti-metabolites and some drugs are examples of .



a) Holoenzymes	✓b) Inhibitors	c) Coenzymes	d) Enzymes
----------------	----------------	--------------	------------

447) Prions are made up of .

a) Lipids	b) Nucleic Acid	✓c) Proteins	d) None of these
-----------	-----------------	--------------	------------------

448) Syrinx is organ of voice in .

a) Mammals	b) Reptiles	✓c) Birds	d) Amphibians
------------	-------------	-----------	---------------

449) Actionopods with glassy shells are .

a) Rotifers	b) Diatoms	c) Radiolarians	d) Forums
-------------	------------	-----------------	-----------

450) The sporophyte is diplod (  $2n$  ) which produces haploid spores by .

✓a) Meiosis	b) Mitosis	c) Nuclear mitosis	d) Binary fission
-------------	------------	--------------------	-------------------

451) In aschelminthes , the space between the body wall and the digestive tube is called .

a) Ceolom	b) Pseudocoelom	c) Acoelom	✓d) Procoelom
-----------	-----------------	------------	---------------

452) A simple breaking of mycelium of some fungal hyphae is called .

a) Hormogonium	✓b) Fragmentaion	c) Karyogamy	d) Hererogonia
----------------	------------------	--------------	----------------

453) The most abundant organic compound in mammalian cell .

a) Water	✓b) Proteins	c) Carbohydrates	d) Lipids
----------	--------------	------------------	-----------

454) The detachable co factor of an enzyme is known as

✓a) Activator	b) Prosthetic group	c) Co enzyme	d) Apo enzyme
---------------	---------------------	--------------	---------------

455) Fungi store surplus food usually as lipid droplets or glycogen in the .

a) Spore	✓b) Mycelium	c) Stolon	d) Sporangiospore
----------	--------------	-----------	-------------------

456) The number of species of organisms called " fungi " which are known , are approximately .

✓a) 100,000	b) 100,00	c) 100,0	d) 100
-------------	-----------	----------	--------

457) \_\_\_\_\_ is a solid mass or plug of blood constituents ( clot ) in a blood vessel .

a) Stroke	b) Haemorrhage	✓c) Thrombus	d) None of these
-----------	----------------	--------------	------------------

458) In annelids , excretion takes place by specialized structures are called .

a) Kidneys	b) Flame cells	c) Malpighian tubules	✓d) Nephridia
------------	----------------	-----------------------	---------------

459) Entamoeba histolytica cause amoebic .

a) Cholera	b) Fever	✓c) Dysentery	d) Migraine
------------	----------	---------------	-------------

460) Fungi show a characteristic type of mitosis , called .

a) Cytomitosis	b) Cytoplasmic mitosis	c) Nucleomitosis	✓d) Nuclear mitosis
----------------	------------------------	------------------	---------------------

461) Sacchoromyces cerevisiae is a .

✓a) Yeast	b) Algae	c) Bacterium	d) Protozone
-----------	----------	--------------	--------------

462) The renal vein brings the impure blood form .



a) Brain	✓b) Kidney	c) Lungs	d) Liver
----------	------------	----------	----------

463) Increased carbon dioxide tension favours the greater liberation of \_\_\_\_\_ from the blood to the tissue .

✓a) Oxygen	b) Sulphur	c) Carbon mono oxide	d) None of these
------------	------------	----------------------	------------------

464) Induced fit model was proposed by .

a) Emil Fisher	✓b) Koshland	c) Jenner	d) Pasteur
----------------	--------------	-----------	------------

465) The tracheophytes are further sub - divided into \_\_\_\_\_ sub-divisions .

a) 1	b) 2	c) 3	✓d) 4
------	------	------	-------

466) For the synthesis of one molecule of glucose Calvin cycle operate how many times ?

a) Once	✓b) Twice	c) Thrice	d) Four times
---------	-----------	-----------	---------------

467) The reasoning that moves from general to specific is.

✓a) Deductive	b) Scientific	c) Inductive	d) Theoretical
---------------	---------------	--------------	----------------

468) Magnesium is an important nutrient ion in green plants as it is an assential component of .

a) Cell sap	b) Protein	✓c) Chlorophyll	d) Glucose
-------------	------------	-----------------	------------

469) At this moment there is no net gas exchange between the leaves and the atmosphere . This is termed as \_\_\_\_\_ .

a) Respiration	✓b) Compensation	c) Photosynthesis	d) None of these
----------------	------------------	-------------------	------------------

470) The reptiles in which ventricle is completely partitioned into two are .

✓a) Crocodiles	b) Turtles	c) Snakes	d) Lizards
----------------	------------	-----------	------------

471) Which statement about photosynthesis is not correct ?

a) CO <sub>2</sub> and H <sub>2</sub> O are used	✓b) Takes place in light and dark	c) Light energy is absorbed by chlorophyll	d) Occurs in almost all the green parts of plant
--	-----------------------------------	--	--

472) Sea urchin belongs to phylum .

a) Arthropoda	✓b) Echinodermata	c) Annelida	d) Protozoa
---------------	-------------------	-------------	-------------

473) In poriferans , there is a single cavity inside the body , the .

a) Blastocoel	b) Haemocoel	c) Gastrocoel	✓d) Spongocoel
---------------	--------------	---------------	----------------

474) Which of the following occurs in the absence of oxygen ?

a) Alcoholic fermentation	b) Lactic acid fermentation	c) Aerobic respiration	✓d) Alcoholic & Lactic acid fermentation
---------------------------	-----------------------------	------------------------	--

475) Oomycetes include a number of pathogenic organisms , including .

a) Physarum polycephalum	b) Rhodotorula	✓c) Phytophthora infestans	d) Candida albicans
--------------------------	----------------	----------------------------	---------------------

476) A circulatory fluid is the \_\_\_\_\_ .

✓a) Blood	b) Water	c) Secretion	d) Hormones
-----------	----------	--------------	-------------

477) Marine algae are also source of many useful substances like .



a) Algin	b) Agar	c) Carrageenan	✓d) All of these
----------	---------	----------------	------------------

478) Irreversible inhibitors form which bond with active site ?

a) Hydrogen bonds	b) Ionic bonds	✓c) Covalent bonds	d) Hydrophobic bonds
-------------------	----------------	--------------------	----------------------

479) Cyclosis and amoeboid movements are because of .

a) Microtubules	✓b) Microfilaments	c) Intermediate filaments	d) Microfibers
-----------------	--------------------	---------------------------	----------------

480) The optimum pH of enzyme pepsin is.

✓a) 2	b) 7	c) 9	d) 6.8
-------	------	------	--------

481) The procedures to eliminate or reduce the possibility of infection is called .

a) Antiseptics	✓b) Antisepsis	c) Antibiotics	d) Antidote
----------------	----------------	----------------	-------------

482) Which of the following were the first plants that formed true leaves and roots ?

a) Psilopsids	✓b) Lycopods	c) Megaphylls	d) Ferns
---------------	--------------	---------------	----------

483) Arterial blood contains about \_\_\_\_\_ of carbon dioxide per 100 ml of blood .

✓a) 50 ml	b) 80 ml	c) 90 ml	d) 70 ml
-----------	----------	----------	----------

484) Cell walls of Oomycetes contain .

✓a) Cellulose	b) Chitin	c) Peptidoglycan	d) Glycogen
---------------	-----------	------------------	-------------

485) Rod shaped Bacteria are called .

a) Cocci	✓b) Bacilli	c) Spirilla	d) Vibrio
----------	-------------	-------------	-----------

486) About 25 minutes after initial infections approximate number of new bacteriophages formed is .

a) 100	✓b) 200	c) 2000	d) 500
--------	---------	---------	--------

487) The digestive vacuoles and autophagosomes are also called .

a) Primary Lysosomes	b) Endocytosis	✓c) Secondary Lysosomes	d) All of these
----------------------	----------------	-------------------------	-----------------

488) The excretory system of flatworms is composed of .

a) Nephron	b) Nephridia	✓c) Flame cells	d) Ganglia
------------	--------------	-----------------	------------

489) After a fatty meal , fat globules may make up .

a) 10 % of the lymph	✓b) 1 % of the lymph	c) 15 % of the lymph	d) 1.5 % of the lymph
----------------------	----------------------	----------------------	-----------------------

490) The study of bacteria , viruses , protozoa and microscopic algae and fungi come under .

a) Molecular biology	b) Bacteriology	✓c) Microbiology	d) Virology
----------------------	-----------------	------------------	-------------

491) The first step in Krebs cycle is the union of acetyl CoA with oxaloacetate to form .

a) Isocitrate	b) $\alpha$ - Ketoglutarate	✓c) Citrate	d) Malate
---------------	-----------------------------	-------------	-----------

492) In metamorphosis the word meta mean .

a) Same	✓b) Change	c) Complex	d) Simple
---------	------------	------------	-----------

493) Five kingdom system of classification proposed by Margulis and Schwartz is not based on .



a) Genetics	✓b) Nucleic Acid	c) Cellular organization	d) Mode of nutrition
-------------	------------------	--------------------------	----------------------

494) An amino acid contains an amino group and a carboxyl group attached to the same .

✓a) Carbon atom	b) Hydrogen atom	c) Nitrogen atom	d) Oxygen atom
-----------------	------------------	------------------	----------------

495) The plasma proteins constitute percent by weight of plasma .

✓a) 7 - 9 %	b) 9 - 11 %	c) 11 - 13 %	d) 13 - 15 %
-------------	-------------	--------------	--------------

496) Glycolysis .

a) Produces no ATP	b) Is the same as fermentation	c) Take place in mitochondrion	✓d) Reduces two molecules of $\text{NAD}^+$ for every glucose molecule processed
--------------------	--------------------------------	--------------------------------	--

497) An isolated virus is not considered living , since it .

a) Separates into two inert parts	b) Rapidly loses its genome	✓c) Cannot metabolize	d) Is coated with an air tight shield
-----------------------------------	-----------------------------	-----------------------	---------------------------------------

498) \_\_\_\_\_ of oxygen in and carbon dioxide out occurs because of difference in partial pressures of these gases.

✓a) Diffusion	b) Effusion	c) Digestion	d) None of these
---------------	-------------	--------------	------------------

499) An activated enzyme with co-enzyme is called .

a) Holoenzymes	b) Coenzyme	✓c) Apoenzyme	d) Activators
----------------	-------------	---------------	---------------

500) Viruses are extremely small infectious agents , which can only be seen under .

a) Compound microscope	✓b) Electron microscope	c) Dissecting microscope	d) Telescope
------------------------	-------------------------	--------------------------	--------------

501) Respiration activity which occurs in plants during day time is called \_\_\_\_\_ .

a) Respiration	✓b) Photorespiration	c) Digestion	d) None of these
----------------	----------------------	--------------	------------------

502) Chemosynthetic bacteria oxidize inorganic compounds like .

a) Ammonia	b) Nitrogen	c) Sulphur	✓d) All of these
------------	-------------	------------	------------------

503) All are made up of cartilage except .

✓a) Bronchiole	b) Bronchi	c) Trachea	d) Larynx
----------------	------------	------------	-----------

504) The protein or enzymes which have to be transported out of the cell pass through the .

a) Endoplasmic reticulum	b) Vacuoles	✓c) Golgi apparatus	d) Mitochondria
--------------------------	-------------	---------------------	-----------------

505) The number of proteins in the human body is over .

✓a) 10,000	b) 15,000	c) 20,000	d) 25,000
------------	-----------	-----------	-----------

506) Mammals have evolved from reptilian ancestor the .

a) Dinosaurs	b) Varanope	✓c) Cotylosaurs	d) Dipnoi
--------------	-------------	-----------------	-----------

507) The feeding stage of a smile mold is called .

a) Mycelium	✓b) Plasmodium	c) Hyphae	d) Rhizoids
-------------	----------------	-----------	-------------



508) An activated enzyme consisting of polypeptide chain and a factor is known as .

<input checked="" type="checkbox"/> a) Holoenzyme	b) Apoenzyme	c) Coenzyme	d) Prosthetic group
---	--------------	-------------	---------------------

509) Only right aortic arch is present in .

a) Mammals	<input checked="" type="checkbox"/> b) Birds	c) Reptiles	d) Amphibians
------------	--	-------------	---------------

510) Study of tissue is called .

a) Microbiology	b) Morphology	<input checked="" type="checkbox"/> c) Histology	d) Anatomy
-----------------	---------------	--	------------

511) Cells in \_\_\_\_\_ system can also be infected by HIV .

<input checked="" type="checkbox"/> a) Central nervous	b) Digestive	c) Circulatory	d) Respiratory
--	--------------	----------------	----------------

512) During inspiration the space inside the chest cavity is \_\_\_\_\_ .

<input checked="" type="checkbox"/> a) Increase	b) Decrease	c) Both a & b	d) None of these
---	-------------	---------------	------------------

513) The study of parasite is called .

a) Paleontology	b) Histology	c) Microbiology	<input checked="" type="checkbox"/> d) Parasitology
-----------------	--------------	-----------------	---

514) The compound formed during muscle fatigue is .

a) Alcohol	b) Lactic acid	c) Citric acid	<input checked="" type="checkbox"/> d) Carbon dioxide
------------	----------------	----------------	---

515) A haploid spermatozoid fuses with haploid egg to produce diploid.

<input checked="" type="checkbox"/> a) Oospore	b) Oosphere	c) Spore	d) Gamete
--	-------------	----------	-----------

516) The example of zooflagellates is .

a) Forams	b) Volvox	c) Entamoeba	<input checked="" type="checkbox"/> d) Trypanosoma
-----------	-----------	--------------	--

517) Vibrio is curved or comma shaped .

a) Coccus	<input checked="" type="checkbox"/> b) Rod	c) Bacillus	d) Spiral
-----------	--	-------------	-----------

518) A condition of high blood pressure is known as .

a) Hypotension	b) Haemorrhage	<input checked="" type="checkbox"/> c) Hypertension	d) Arteriosclerosis
----------------	----------------	---	---------------------

519) The protein present in microtubule is .

<input checked="" type="checkbox"/> a) Tubulin	b) Tetroses	c) Tetroses	d) Tropomyosin
--	-------------	-------------	----------------

520) Marsupium is the characteristic feature of .

<input checked="" type="checkbox"/> a) Duckbill platypus	b) Opossum	c) Echidna	d) Dolphin
--	------------	------------	------------

521) The \_\_\_\_\_ is absent and there is the formation of resistant cuticle for protection .

a) Endoderm	<input checked="" type="checkbox"/> b) Epidermis	c) Ectoderm	d) None of these
-------------	--	-------------	------------------

522) Reproductive system is formed from .

<input checked="" type="checkbox"/> a) Mesoderm	b) Endoderm	c) Ectoderm	d) Hypoderm
---	-------------	-------------	-------------

523) Irreversible inhibitors form which bond with active site ?

a) Hydrogen bonds	b) Ionic bonds	<input checked="" type="checkbox"/> c) Covalent bonds	d) Hydrophobic bonds
-------------------	----------------	---	----------------------



524) Mucus is saliva is made of .

a) Glycolipid	b) Phospholipids	✓c) Glycoprotein	d) Saturated fatty acids
---------------	------------------	------------------	--------------------------

525) Fungal cell wall contains \_\_\_\_\_ .

a) Action	b) Cytosin	✓c) Chitin	d) None of these
-----------	------------	------------	------------------

526) If proteins part of co factor is covalently bonded to enzyme it is called as

a) Co enzyme	✓b) Prosthetic group	c) Activator	d) Apoenzyme
--------------	----------------------	--------------	--------------

527) The heat that causes coagulation of proteins and kills the microbes .

✓a) Moist heat	b) Dry heat	c) Intense heat	d) Mild heat
----------------	-------------	-----------------	--------------

528) Linnaeus published his list of animals in .

a) 1747	b) 1748	✓c) 1758	d) 1753
---------	---------	----------	---------

529) The body cavity of nematoda is .

a) Blastocoel	✓b) Pseudocoelom	c) Coelom	d) Haemocoelom
---------------	------------------	-----------	----------------

530) The larva found in echinoderms is .

a) Trochophore	b) Veliger	✓c) Bipinnaria	d) Planaria
----------------	------------	----------------	-------------

531) The body of diploblast consists of \_\_\_\_\_ of cells .

a) One layer	✓b) Two layer	c) Three layer	d) None of these
--------------	---------------	----------------	------------------

532) Example of rod shaped bacteria is .

a) Spirocheta	b) H.microbium	c) S.Aureus	✓d) Escherichia coli
---------------	----------------	-------------	----------------------

533) Most green algae possess cell wall with .

✓a) Cellulose	b) Chitin	c) Silica	d) Pectin
---------------	-----------	-----------	-----------

534) Blood provides immunity by the \_\_\_\_\_ .

a) Rh factor	✓b) Lymphocytes	c) Both a & b	d) None of these
--------------	-----------------	---------------	------------------

535) Failure of interatrial foramen ( an opening in the inter - atrial septum ) to close or of ductus arteriosus to fully constrict results in \_\_\_\_\_ .

✓a) Cyanosis	b) Thalassemia	c) Oedema	d) None of these
--------------	----------------	-----------	------------------

536) The Common name for solanum melangena is .

a) Onion	✓b) Brinjal	c) Potato	d) Amaltas
----------	-------------	-----------	------------

537) Orders include related .

✓a) Families	b) Genera	c) Species	d) Classes
--------------	-----------	------------	------------

538) The amount of glucose into ATP during anaerobic respiration is .

✓a) 2 %	b) 1 %	c) 3 %	d) 4 %
---------	--------	--------	--------



539) With the help of flagella , flagellate bacteria can detect and move in response to chemical signals which is a type of behaviour called.

a) Chemotherapeutic	b) Chemosynthetic	✓c) Chemotaxis	d) Phototaxis
---------------------	-------------------	----------------	---------------

540) Chemical substances used on living tissues that inhibit the growth of microorganisms are called as .

a) Disinfectants	b) Sterilizers	✓c) Antiseptics	d) Counteracting sepsis
------------------	----------------	-----------------	-------------------------

541) The symptoms of the stroke vary depending on the part of the \_\_\_\_\_ that has been damaged .

a) Liver	b) Heart	✓c) Brains	d) None of these
----------	----------	------------	------------------

542) In animals the bodies of which can be divided in two equal halves only in one plane are .

a) Asymmetrical	✓b) Bilaterally symmetrical	c) Radially symmetrical	d) None of these
-----------------	-----------------------------	-------------------------	------------------

543) Which one of the following is not a ciliate ?

a) Stentor	b) Paramecium	✓c) Trypanosoma	d) Vorticella
------------	---------------	-----------------	---------------

544) Organ of voice in birds is called as .

✓a) Syrinx	b) Larynx	c) Tongue	d) Pharynx
------------	-----------	-----------	------------

545) The percentage by weight of RNA in a bacterial cell is .

a) 0.25 %	b) 2 %	c) 3 %	✓d) 6 %
-----------	--------	--------	---------

546) Most ciliates are capable of a sexual process called .

a) Oogamy	b) Mating	✓c) Conjugation	d) Plasmogamy
-----------	-----------	-----------------	---------------

547) Closed circulatory system is observed in animals belonging to annelids , cephalopod molluscs ( squids and octopus ) , echinoderms and \_\_\_\_\_ .

a) Tunicates	✓b) Vertebrates	c) Mollusca	d) None of these
--------------	-----------------	-------------	------------------

548) Bacteria without any flagella are called.

a) Amphitrichous	b) Monotrichous	c) Lophotrichous	✓d) Atrichous
------------------	-----------------	------------------	---------------

549) Pelomyxa Palustris is commonly called .

a) Entamoeba	b) Trypanosoma	c) Trichonympha	✓d) Giant amoeba
--------------	----------------	-----------------	------------------

550) The name animalia is derived from Latin , anima = \_\_\_\_\_ .

a) Breath	b) Soul	✓c) Both a & b	d) None of these
-----------	---------	----------------	------------------

551) A swim bladder is present in .

a) Jawless fishes	b) Cartilaginous fishes	✓c) Bony fishes	d) Armoured fishes
-------------------	-------------------------	-----------------	--------------------

552) Respiratory pigment present in muscles is called \_\_\_\_\_

a) Myoglobin	✓b) Globin	c) Haemoglobin	d) Haemocyanins
--------------	------------	----------------	-----------------

553) When lungs are \_\_\_\_\_ the air inside lungs moves out of the lungs and this is expiration .

a) Dilation	✓b) Pressed	c) Relax	d) None of these
-------------	-------------	----------	------------------



554) Arrange the following in order of increasing group size , beginning with the smallest : family , kingdom , phylum ( or division ) , genus , order , and class .

✓a) Species	b) Class	c) Genus	d) Family
-------------	----------	----------	-----------

555) \_\_\_\_\_ is the formation of thrombus .

✓a) Thrombosis	b) Hypetension	c) Both a & b	d) None of these
----------------	----------------	---------------	------------------

556) The distal end of the megasporangium became modified for capturing \_\_\_\_\_ .

a) Fruit	b) Seed	c) Zygote	✓d) Pollen
----------	---------	-----------	------------

557) One of the most unusual protest phylum is that of .

✓a) Dinoflagellates	b) Zooflagellates	c) Euglenoids	d) Oomycotes
---------------------	-------------------	---------------	--------------

558) The sexual process is exhibited by most cilites by .

a) Binary fission	✓b) Conjugation	c) Budding	d) Fertilization
-------------------	-----------------	------------	------------------

559) Female gametophyte in flowering plants is .

a) Ovary	b) Archegonium	✓c) Seed	d) Embryo sac
----------	----------------	----------	---------------

560) Initially , the classification was based on .

a) Genetic features	b) Physiology	✓c) Morphology	d) Cytology
---------------------	---------------	----------------	-------------

561) In annelids , the mouth is overhung by a loded structure, the .

a) Peristomium	✓b) Prostomium	c) Proglottid	d) Parapodium
----------------	----------------	---------------	---------------

562) Pleura is double layered thin membrane that covers .

a) Heart	✓b) Lungs	c) Kidney	d) Liver
----------	-----------	-----------	----------

563) Formula of lactic acid is .

a) $C_3H_5O_3$	✓b) $C_3H_6O_3$	c) $C_3H_5OH$	d) $C_3H_4O_3$
----------------	-----------------	---------------	----------------

564) Icosahedral virus have nearly .

a) 10 faces	✓b) 20 faces	c) 30 faces	d) 40 faces
-------------	--------------	-------------	-------------

565) Coenzyme are closely related to .

a) Amino Acids	b) Non protein particles	✓c) Vitamins	d) Enzymes
----------------	--------------------------	--------------	------------

566) Because of the structural similarity with the substrate , competitive inhibitors may be selected by the binding sites , but are not able to activate the ,

✓a) Catalytic sites	b) Ac celerating sites	c) Inactive sites	d) Active sites
---------------------	------------------------	-------------------	-----------------

567) Oval shaped bacteria are .

✓a) Cocci	b) Bacilli	c) Vibris	d) Spriclla
-----------	------------	-----------	-------------

568) Enzyme are the most important biologically active group of .

a) Carbohydrates	b) Lipids	✓c) Proteins	d) Nucleis acids
------------------	-----------	--------------	------------------



569) Candida albicans , a yeast , causes oral and vaginal thrush i.e. ,

a) Candidiasis	b) Candidosis	✓c) Both a & b	d) None of these
----------------	---------------	----------------	------------------

570) Ulcer results in sore or hole in the wall of .

a) Stomach	✓b) Stomach or duodenum	c) Duodenum	d) Stomach or trachea
------------	-------------------------	-------------	-----------------------

571) Mitochondria appear to be ..

a) Filaments	✓b) Vesicles , rods or Filaments	c) Vesicles	d) Rods
--------------	----------------------------------	-------------	---------

572) All the animals included in Grade Bilateria are \_\_\_\_\_ .

a) Diploblastic	✓b) Triploblastic	c) Both a and b	d) Tetreblastic
-----------------	-------------------	-----------------	-----------------

573) The volume of air taken inside the lungs and expelled during exercise is about \_\_\_\_\_ liters .

a) 1.5	b) 2.5	✓c) 3.5	d) 4.5
--------	--------	---------	--------

574) African sleeping sickness is transmitted by .

a) Mosquito	b) Trypanosoma	✓c) Tse tse fly	d) Plasmodium
-------------	----------------	-----------------	---------------

575) Lysosomal sacs are rich in .

a) Acid oxidase and hydrolytic enzymes	b) Acid phosphatase and proteolytic enzymes	✓c) Acid phosphatase and hydrolytic enzyme	d) Phosphatase and oxidases onlyh
--	---	--	-----------------------------------

576) Bacterial pathogenicity is due to .

a) Envelope of all cell	b) Capsule	✓c) Slime	d) Cell wall
-------------------------	------------	-----------	--------------

577) Before pyruvate enter the citric acid cycle, it is decarboxylated, oxidized and combined with coenzyme A, forming acetyl CoA, carbon dioxide and one molecule of ;

✓a) NADH	b) NAD	c) ATP	d) FADH <sub>2</sub>
----------	--------	--------	----------------------

578) Mosses are.

a) Arthropytes	✓b) Bryophytes	c) Spermatophytes	d) Tracheophytes
----------------	----------------	-------------------	------------------

579) Syrin is organ of voice in .

a) Amphilbian	b) Reptiles	✓c) Birds	d) Mammals
---------------	-------------	-----------	------------

580) Which one is an insect ?

a) Hag fish	b) Cuttle fish	✓c) Silver fish	d) Star fish
-------------	----------------	-----------------	--------------

581) The structure in mouth that prevents food from entering nasal cavities is the .

a) Tongue	✓b) Soft palate	c) Epiglottis	d) Pharynx
-----------	-----------------	---------------	------------

582) The skeleton of birds is light due to .

a) Extension of lungs	b) Air chambers	c) Air Sacs	✓d) Air spaces
-----------------------	-----------------	-------------	----------------

583) Many humans become ill from consuming milk and milk products because the lack .



a) Bacteria in their intestines	b) Rennin	✓c) Lactase	d) HCl
---------------------------------	-----------	-------------	--------

584) Only left aortic arch is present in .

a) Birds	b) Cockroach	c) Crow	✓d) Mammals
----------	--------------	---------	-------------

585) Immediately after entering the host cell , the viral nucleic acid takes the control of hosts .

a) DNA	b) Protein	c) Synthetic area	✓d) Biosynthetic machinery
--------	------------	-------------------	----------------------------

586) Lovastatin is used for lowering blood .

a) Pressure	b) Glucose	✓c) Cholesterol	d) Neraspora
-------------	------------	-----------------	--------------

587) Larva of mollusca and annelids .

a) Radula	b) Planula	✓c) Trocophore	d) Gemmule
-----------	------------	----------------	------------

588) \_\_\_\_\_ occur from 12 – 24 hours after eating contaminated food .

a) Dypepria	✓b) Food poisoning	c) Obesity	d) None of these
-------------	--------------------	------------	------------------

589) The bryophytes are non-vascular plants .

a) Lycopsidea	b) Psilopsida	✓c) Sphenopsida	d) Pteropsida
---------------	---------------	-----------------	---------------

590) Most vitamins function as.

✓a) Catalyst	b) Gastro cascular cavity	c) High energy compound	d) Mouth
--------------	---------------------------	-------------------------	----------

591) The \_\_\_\_\_ helps defend the body again foregind invaders .

a) Circulatory system	✓b) Lymphatic system	c) Heart	d) None of these
-----------------------	----------------------	----------	------------------

592) When the division is in three planes , it will produce a .

✓a) Sarcina arrangement	b) Tetrad arrangement	c) Bivalent arrangement	d) Helical arrangement
-------------------------	-----------------------	-------------------------	------------------------

593) Shells of fresh water mussels are used in \_\_\_\_\_ .

a) Paper industry	b) Clothes industry	✓c) Button industry	d) None of these
-------------------	---------------------	---------------------	------------------

594) Common cold is caused by .

a) Poxviruses	b) Parvoviruses	c) Paramyxoviruses	✓d) Adenoviruses
---------------	-----------------	--------------------	------------------

595) It is a dry , indehiscent fruit in which fruit wall is completely fused with seed coat .

a) Dryopsis	b) Testa	✓c) Caryopsis	d) Legume
-------------	----------	---------------	-----------

596) The pore by which the water leaves the body of sponges is called

a) Ostia	b) Mouth	c) Anus	✓d) Osculum
----------	----------	---------	-------------

597) \_\_\_\_\_ is the largest group of fungi .

a) Basidiomycota	b) Zygomycota	c) Ascomycota	✓d) Deuteromycota
------------------	---------------	---------------	-------------------

598) Nucleus can be seen in a .

a) Mature cell	✓b) Non-dividing cell	c) Germinating cell	d) Dividing cell
----------------	-----------------------	---------------------	------------------

599) Tracheophyta have \_\_\_\_\_ alternation of generation .



a) Heterogamy	b) Homogamy	✓c) Heteromorphic	d) None of these
---------------	-------------	-------------------	------------------

600) A group of similar cells that perform similar function is.

a) Organ	b) Organelles	✓c) Tissue	d) System
----------	---------------	------------	-----------

601) The single stranded RNA – tumor viruses are .

✓a) Spherical	b) Elongated	c) Spiral	d) Cubical
---------------	--------------	-----------	------------

602) Parasitic fungi directly absorb nutrients from living host by .

✓a) Haustoria	b) Roots	c) Rhizoids	d) Gametangia
---------------	----------	-------------	---------------

603) The reproductive system in platyhelminthes are \_\_\_\_\_ .

a) Simple	✓b) Complicated	c) Both a & b	d) None of these
-----------	-----------------	---------------	------------------

604) A virion is a .

✓a) Virus	b) Viral protein	c) Viral lysozyme	d) Viral gene
-----------	------------------	-------------------	---------------

605) The reversible inhibitors usually constitute

a) Strong linkage with enzyme	b) No linkage with enzyme	✓c) Weak linkage with enzyme	d) Medium linkage with enzyme
-------------------------------	---------------------------	------------------------------	-------------------------------

606) Scientific name has advantage of having .

a) No scientific basis	✓b) Scientific basis and universally accepted	c) Same organisms having different names in different areas	d) Same name applied to different organism
------------------------	---	---	--

607) In the maximum depth of roots of prosopis is .

a) 40 meters	✓b) 50 meters	c) 60 meters	d) 70 meters
--------------	---------------	--------------	--------------

608) Which of the following is not a fibrous protein .

a) Keratin	b) Myocin	c) Fibrin	✓d) Hormones
------------	-----------	-----------	--------------

609) What is not true about microfilaments ?

a) Actin	b) Cyclosis	c) Amoeboid movement	✓d) Linked with outer surface of plasma membrane
----------	-------------	----------------------	--

610) If tuft of flagella is present only at one pole of bacteria then these are called as .

a) Monotrichous	b) Peritrichous	c) Amphitrichous	✓d) Lophotrichous
-----------------	-----------------	------------------	-------------------

611) When cocci occur in pairs , their arrangement is .

a) Tetrad	b) Diplococcus	c) Sarcina	d) Streptococci
-----------	----------------	------------	-----------------

612) The most abundant organic compound in the cells is the .

a) Carbohydrate	b) Lipid	✓c) Protein	d) ATP
-----------------	----------	-------------	--------

613) Taste buds of tongue play important role in food

a) Digestion	✓b) Selection	c) Lubrication	d) Mastication
--------------	---------------	----------------	----------------



614) This group includes animals with \_\_\_\_\_ symmetry

a) Radial	✓b) Bilateral	c) Both a & b	d) None of these
-----------	---------------	---------------	------------------

615) Most of the cells are \_\_\_\_\_ and are not visible to the naked eye .

✓a) Microscopic	b) Eukaryotic	c) Prokaryotic	d) None of these
-----------------	---------------	----------------	------------------

616) The absorptive nutrition of fungi is aided by .

a) Spore formation	b) They are all parasites	✓c) Their large surface area – volume ratio	d) They form fruiting bodies
--------------------	---------------------------	---	------------------------------

617) In cockroach partly digested food is temporarily stored in :

a) Rectum	b) Gizzard	✓c) Crop	d) Pit
-----------	------------	----------	--------

618) Which of the following is an enzyme of saliva ?

✓a) Ptyalin	b) Enterokinase	c) Pepsin	d) Lipase
-------------	-----------------	-----------	-----------

619) The male gametophyte of an angiosperm is the .

✓a) Anther	b) Embryo sac	c) Microspore	d) Ovule
------------	---------------	---------------	----------

620) Iron containing protein is .

a) Cytochrome	✓b) Ferredoxin	c) Plastocyanin	d) Plastoquinone
---------------	----------------	-----------------	------------------

621) The vitamins are essential raw material for the synthesis of

a) Prosthetic group	b) Cofactors	✓c) Coenzymes	d) Activators
---------------------	--------------	---------------	---------------

622) Respiratory distress syndrome is common in .

a) All new borns	b) Adults	✓c) Premature infants	d) Old age people
------------------	-----------	-----------------------	-------------------

623) The tentative explanation of observation .

a) Hypothesis	b) Deduction	c) Law	d) Theory
---------------	--------------	--------	-----------

624) Margulis and Schwartz accommodate the diverse assemblage of organisms of protista into .

a) 37 Phyla	b) 10 Phyla	✓c) 27 Phyla	d) 5 Phyla
-------------	-------------	--------------	------------

625) Haemocyanin is found in the phylum .

a) Echinodermata	b) Mollusca	c) Hemichordata	✓d) Chordata
------------------	-------------	-----------------	--------------

626) The liver receives \_\_\_\_\_ .

a) Portal vein	b) Iliac vein	✓c) Hepatic portal	d) None of these
----------------	---------------	--------------------	------------------

627) In the absence of oxygen, yeast cells obtain energy by fermentation, producing CO<sub>2</sub>, ATP and .

a) Acetyl . Co - A	✓b) Ethanol	c) Lactate	d) Pyruvate
--------------------	-------------	------------	-------------

628) Tentacles are characteristics of:

✓a) Hydra	b) Snail	c) Euglena	d) Amoeba
-----------	----------	------------	-----------

629) Optimum pH of value for enzyme pepsin is.



a) 4.50	b) 9.00	✓c) 2.00	d) 5.50
---------	---------	----------	---------

630) Solanum esculentum is the scientific name of .

a) Potato	b) Tobacco	c) Onion	✓d) Tomato
-----------	------------	----------	------------

631) Drosera is the scientific name of \_\_\_\_\_ .

a) Pitcher plant	b) Venus flytrap	✓c) Sundew	d) None of these
------------------	------------------	------------	------------------

632) The lichen which are leaf like are called .

✓a) Foliose	b) Fruticose	c) Crustose	d) All of these
-------------	--------------	-------------	-----------------

633) Incomplete or imperfect digestion is called .

✓a) Dyspepsia	b) Anorexia nervosa	c) Food poisoning	d) Bulimia nervosa
---------------	---------------------	-------------------	--------------------

634) Housefly , mosquito , butterflies , moths , wasps and beetles etc , are example of class .

✓a) Insects	b) Arachnida	c) Myriapoda	d) Crustacea
-------------	--------------	--------------	--------------

635) HCl adjusts the pH of stomach content to a range of .

a) 1 - 3	b) 3 - 4	✓c) 2 - 3	d) 2 - 5
----------	----------	-----------	----------

636) When carbon dioxide pressure increases , the oxygen tension \_\_\_\_\_ .

a) Increase	✓b) Decrease	c) Both a & b	d) None of these
-------------	--------------	---------------	------------------

637) Of the total dry weight of the living cells proteins constitute over .

a) 30 %	b) 40 %	✓c) 50 %	d) 60 %
---------	---------	----------	---------

638) The percentage of potassium in the human body is.

a) 0.15%	b) 0.05%	✓c) 0.35%	d) 0.25%
----------	----------	-----------	----------

639) Excess gastric secretions is an important factor of

✓a) Peptic ulcer	b) Obesity	c) Piles	d) Food poisoning
------------------	------------	----------	-------------------

640) The sexual process exhibited by most ciliated is called .

a) Oogamy	b) Binary Fission	✓c) Conjugation	d) Fertilization
-----------	-------------------	-----------------	------------------

641) The presence of free oxygen made possible the evolution of:

a) Man	b) Dark reaction	c) Photosynthesis	✓d) Respiration
--------	------------------	-------------------	-----------------

642) Which statement about enzyme is not true ?

a) They consist of proteins , with or without a non-protein part	b) They change the rate of catalyzed reaction	c) They are sensitive to heat	✓d) They are non-specific in their action
--	---	-------------------------------	---

643) Energy transformation in living system follows the principal of:

a) Biophysics	b) Bioenergetics	c) Biochemistry	✓d) Thermodynamics
---------------	------------------	-----------------	--------------------

644) The prokaryotic cell can divide by .



a) Multiple fission	b) Mitosis	c) Meiosis	✓d) Binary fission
---------------------	------------	------------	--------------------

645) In deuterostomia ( deuterostomes ) during embryonic development mouth is formed at some distance anterior to the blastopore and blastopore forms the.

✓a) Anus	b) Nervous system	c) Head	d) Lip
----------	-------------------	---------	--------

646) Hepatitis C is also called .

a) Serum hepatitis	b) Infectious hepatitis	✓c) Infusion hepatitis	d) Delta hepatitis
--------------------	-------------------------	------------------------	--------------------

647) Temperature causes closure of stomata .

a) 30 - 40 <sup>0</sup> C	b) 30 - 35 <sup>0</sup> C	c) 25 - 35 <sup>0</sup> C	✓d) 40 - 45 <sup>0</sup> C
---------------------------	---------------------------	---------------------------	----------------------------

648) The part of flower which develops into fruit is .

a) Flower	b) Seed	c) Ovule wall	✓d) Ovary
-----------	---------	---------------	-----------

649) Fresh water spongs is .

a) Sycon	b) Leucosolenia	✓c) Spongilla	d) Eupectella
----------	-----------------	---------------	---------------

650) Photosystem II has the form of chlorophyll a which absorbs best light of .

a) 670 nm	✓b) 680 nm	c) 690 nm	d) 700 nm
-----------	------------	-----------	-----------

651) Metamrically segmented animals belong to .

✓a) Annelida	b) Cnidaria	c) Mollusca	d) Echinodermata
--------------	-------------	-------------	------------------

652) Each villus is supplied richly with blood capillaries and a vessel called lacteal of .

✓a) Lymphatic system	b) Endocrine system	c) Digestive system	d) Nervous system
----------------------	---------------------	---------------------	-------------------

653) Second male gamete ( n ) fuses with another female cell called \_\_\_\_\_ ( 2n ) .

a) Nucleus	b) Fusion	✓c) Fusion nucleus	d) Gameto - genesis
------------	-----------	--------------------	---------------------

654) Arrangement of unequal dichotomies in one plane is termed as .

a) Overtopping	b) Fusion	✓c) Planation	d) Webbing
----------------	-----------	---------------	------------

655) When the division of cell is in two planes it will produce a .

a) Sarcina arrangement	✓b) Tetrad arrangement	c) Bivalent arrangement	d) Helical arrangement
------------------------	------------------------	-------------------------	------------------------

656) They theory called , pressure - Flow Theory , is the most acceptable theory for the transport in the phloem of \_\_\_\_\_ .

a) Gymnosperm	✓b) Angiosperms	c) Bryophytes	d) None of these
---------------	-----------------	---------------	------------------

657) Mycorrhizae association is present in \_\_\_\_\_ % of all vascular plants .

a) 65	b) 75	c) 85	✓d) 95
-------	-------	-------	--------

658) Dolphin is .

a) Fish	b) Bird	✓c) Mammal	d) Amphibian
---------	---------	------------	--------------

659) Closely associated with root pressure is a phenomenon .



a) Transpiration	✓b) Exudation	c) Evaporation	d) Humidity
------------------	---------------	----------------	-------------

660) During photosynthesis photosynthetic bacteria use hydrogen sulphide instead of water as .

a) Carbon source	b) Nitrogen source	✓c) Hydrogen source	d) Sulphur source
------------------	--------------------	---------------------	-------------------

661) The best known phages are T phages that infect .

a) Salmonella typhi	b) Mycoplasma	c) Pseudomoas	✓d) Escherichia Coli
---------------------	---------------	---------------	----------------------

662) Single circuit heart is present in.

a) Mammals	b) Reptiles	c) Amphibians	✓d) Fishes
------------	-------------	---------------	------------

663) The breaking of terminal phosphate of ATP releases energy of about :

a) 4.5 Kcal	b) 6.5 Kcal	c) 3.7 Kcal	✓d) 7.3 Kcal
-------------	-------------	-------------	--------------

664) When cocci form long chain of cells then arrangement is called as .

a) Tetrad	b) Diplococcus	c) Sarcina	✓d) Streprococci
-----------	----------------	------------	------------------

665) Most of the visible part of lichen consists of .

a) Algae	✓b) Fungi	c) Roots	d) Bacteria
----------	-----------	----------	-------------

666) Pepsinogen is an \_\_\_\_\_ form of pepsine .

a) Active	✓b) Inactive	c) Inhibitor	d) None of these
-----------	--------------	--------------	------------------

667) The aorta bifurcates into \_\_\_\_\_ .

✓a) Iliac arteries	b) Capillaries	c) Veins	d) None of these
--------------------	----------------	----------	------------------

668) Biology is short of laws because of.

a) Elusive nature of life	b) Large population of human	c) Less falsification	d) Less initiation
---------------------------	------------------------------	-----------------------	--------------------

669) The colour of chlorophyll b is .

a) Orange - red	✓b) Yellow - green	c) Blue - green	d) Orange - green
-----------------	--------------------	-----------------	-------------------

670) In five kingdom system , Eukaryotic multicellular reducers are placed in kingdom .

a) Monera	b) Protista	✓c) Fungi	d) Animalia
-----------	-------------	-----------	-------------

671) Earliest fossil bird is .

a) Cotylosaurs	✓b) Archaeopterx	c) Pelycosaur	d) Kiwi
----------------	------------------	---------------	---------

672) The body of these animals is made of three layers extoderm , \_\_\_\_\_ and endoderm .

a) Echinoderm	✓b) Mesoderm	c) Radiata	d) None of these
---------------	--------------	------------	------------------

673) Pig could be the source of infection of hepatitis .

a) A	b) B	✓c) E	d) C
------	------	-------	------

674) Which of the following is not an example of poisonous mushroom ?



a) Death cap / death angel	b) Jack - O ' Lantern mushroom	c) Amanita	✓d) Agaricus
----------------------------	--------------------------------	------------	--------------

675) Reindeer moss is .

a) Mycorrhiza	✓b) Lichen	c) Funaria	d) Alga
---------------	------------	------------	---------

676) An enzyme NADP reductase transfers electrons from .

✓a) Fd to NADP	b) NADP to Fd	c) Fd to NADPH	d) Fd to ADP
----------------	---------------	----------------	--------------

677) The mammalian red blood cells are .

a) Biconvex	b) Convex	c) Concave	✓d) Biconcave
-------------	-----------	------------	---------------

678) Lungs of birds have thin walled ducts called .

a) Alveoli	b) Trachea	c) Bronchi	✓d) Parabronchi
------------	------------	------------	-----------------

679) When a green plant performs photosynthesis at its maximum rate .

a) The rate of water loss is low	✓b) The water content of the plant will be low	c) The energy content of the plant will be low	d) The energy content will be unaffected
----------------------------------	--	--	--

680) Double fertilization is a characteristic of

a) Gymnosperms	✓b) Angiosperms	c) Bryophytes	d) Mosses
----------------	-----------------	---------------	-----------

681) Venome meaning .

a) Virus	✓b) Poisonous fluid	c) Viral fluid	d) None of these
----------	---------------------	----------------	------------------

682) About 60 % of adults are immune to .

a) Measles	b) Small pox	✓c) Mumps	d) Cow pox
------------	--------------	-----------	------------

683) Cell wall of gram positive bacteria are stained .

a) Pink	b) Red	c) Green	✓d) Purple
---------	--------	----------	------------

684) Koshland in 1959 proposed the modified form of .

a) Fluid mosaic model	b) Unit membrane model	c) Induce Fit model	✓d) Lock and key model
-----------------------	------------------------	---------------------	------------------------

685) Which of the following series is correct one in Krebs's cycle ?

a) Succinate → malate → fumarate → malate → fumarate → succinate	b) Oxaloacetate → malate → fumarate → succinate → fumarate → malate	c) Succinate → fumarate → malate → oxaloacetate → fumarate	d) Malate → oxaloacetate → fumarate → succinate → fumarate → malate
--	---	--	---

686) Why haemoglobin is 98 % saturated , the oxygen content per 100 ml of blood is .

a) 16.6 ml	b) 17.6 ml	c) 18.6 ml	✓d) 19.6 ml
------------	------------	------------	-------------

687) Conversion of one pyruvic acid into one acetyl CoA gives off one molecule of .

a) ATP	b) Oxygen	✓c) Carbon dioxide	d) Water
--------	-----------	--------------------	----------

688) Water splitting process of photosynthesis releasing oxygen is called .

a) Glycolysis	✓b) Photolysis	c) Hydrolysis	d) Electrolysis
---------------	----------------	---------------	-----------------



689) The thick walled reproductive cells of cyanobacteria are called

a) Heterocyts	✓b) Akinete	c) Hormogonia	d) All of these
---------------	-------------	---------------	-----------------

690) In earthworm exchange of gases mainly takes place through .

a) Gills	b) Lungs	✓c) Skin	d) Ostia
----------	----------	----------	----------

691) Which of the following enzyme is responsible for dissolving a portion of bacterial cell wall ?

a) Lipase	✓b) Lysozyme	c) Ligase	d) Catalase
-----------	--------------	-----------	-------------

692) The uncontrolled production of white blood cells result in .

✓a) Leucaemia	b) Thalassaemia	c) Oedema	d) Asthma
---------------	-----------------	-----------	-----------

693) The spinny skinned animals are included in .

✓a) Echinodermata	b) Porifera	c) Annelida	d) Mollusca
-------------------	-------------	-------------	-------------

694) In the binomial system of taxonomy , developed during the 18th century by C . Linnaeus , the first word of an organism's name .

a) Species	✓b) Genus	c) Race	d) Family
------------	-----------	---------	-----------

695) From the blind end of the caecum there arises a finger like process called \_\_\_\_\_ .

a) Rection	b) Appendicites	✓c) Appendix	d) None of these
------------	-----------------	--------------	------------------

696) A single mycelium may produce upto \_\_\_\_\_ in length only one day .

a) 1 mm	b) 1 cm	c) 1 m	✓d) 1 km
---------	---------	--------	----------

697) The potential source of chemical energy for cellular activities .

✓a) C-H bond	b) C-N bond	c) C-O bond	d) C-C bond
--------------	-------------	-------------	-------------

698) The total weight of a mammalian cell , DNA forms .

a) 1 %	b) 1.1 %	c) 6 %	✓d) 0.25 %
--------	----------	--------	------------

699) The leaves are called fronds in class .

a) Angiospermae	✓b) Filicineae	c) Gymnospermae	d) Sphenopsida
-----------------	----------------	-----------------	----------------

700) Carboxyhaemoglobin is formed when carbon dioxide combines with \_\_\_\_\_ of haemoglobin .

a) Oxygen	✓b) Amino group	c) Easter group	d) None of these
-----------	-----------------	-----------------	------------------

701) The detachable co-factor is known as an activator if it is .

a) Organic ion	b) Non-ionic	c) Inorganic ion	✓d) Non-polar
----------------	--------------	------------------	---------------

702) In deductive reasoning we move from .

✓a) General to specific	b) General to general	c) Specific to general	d) Specific to specific
-------------------------	-----------------------	------------------------	-------------------------

703) The protozoans having two kinds of nuclei .

a) Zooflagellates	b) Amoeba	✓c) Ciliates	d) Actinopods
-------------------	-----------	--------------	---------------

704) Glycolysis



a) Produces of ATP	b) Is the same as fermentation	✓c) Reduces two molecules of NAD for every glucose molecule processed	d) Has no connection with the respiratory chain
--------------------	--------------------------------	---	---

705) Most of the cell secretions are in the nature .

✓a) Glycoproteins	b) Lipids	c) Carbohydrates	d) Proteins
-------------------	-----------	------------------	-------------

706) Which of the following is a group of organic compounds ?

a) Lipids , nucleic acids and nitric acid	✓b) Carbohydrates , lipids , nucleic acids	c) Proteins , acids , lipids	d) Carbon dioxide , acids , bases
---	--	------------------------------	-----------------------------------

707) Amoebas move and obtain food by means of .

a) Plasmodium	b) Flagella	c) Cilia	✓d) Pseudopodia
---------------	-------------	----------	-----------------

708) Any factor that can alter the chemistry and shape of an enzyme can effect its rate of .

a) Activity	b) Hydrolysis	✓c) Catalysis	d) Photolysis
-------------	---------------	---------------	---------------

709) Ovary wall develops into the .

✓a) Fruit	b) Vegetable	c) Seed coats	d) Pericarp
-----------	--------------	---------------	-------------

710) The loss of water through dydrophytes in leaves is called .

a) Transpiration	b) Bleeding	✓c) Guttation	d) Imbibition
------------------	-------------	---------------	---------------

711) Liver secretes bile into .

a) Stomach	✓b) Duodenum	c) Jejunum	d) Ilenum
------------	--------------	------------	-----------

712) Bacterial endospores function in

a) Reproduction	b) Protein sunthesis	✓c) Survival	d) Storage
-----------------	----------------------	--------------	------------

713) The structure in the mouth that prevents food from entering the nasal cavities is the .

a) Epiglottis	✓b) Soft palate	c) Tongue	d) Pharynx
---------------	-----------------	-----------	------------

714) Which is correct order of parts of air passage ways in man .

✓a) Nostrils , Nasal cavity , Pharynx , Larynx	b) Nasal cavity , Nostrils , Pharynx , Larynx	c) Nasal cavity , Pharynx , Nostrils , Larynx	d) Nostrils , Pharynx , Larynx , Nasal cavity
--	---	---	---

715) Cytoplasm is a site for certain metabolic processes such as .

a) Krebs cycle	✓b) Glycolysis	c) Calvin cycle	d) Glyoxylate cycle
----------------	----------------	-----------------	---------------------

716) Glucose molecules split into two molecules of \_\_\_\_\_ during glycolysis .

a) Acetic acid	✓b) Pyruciv acid	c) Acetyl CoA	d) G3P
----------------	------------------	---------------	--------

717) Which is stimulus for cyclic phosphorylation ?

a) Low CO <sub>2</sub>	b) Low O <sub>2</sub>	✓c) Low ATP	d) Low NADPH
------------------------	-----------------------	-------------	--------------

718) This pulling force or transpiration pull is so strong that it also reduces the water potential of \_\_\_\_\_ cells .



a) Epidermal all	✓b) Root epidermal	c) Stem epidermal	d) None of these
------------------	--------------------	-------------------	------------------

719) 4 ml of carbon dioxide per 100 ml of blood as it passes through the \_\_\_\_\_ .

✓a) Lungs	b) Liver	c) Kidney	d) None of these
-----------	----------	-----------	------------------

720) The body of a fungus ( except yeast ) is called .

a) Thallus	b) Hyphae	✓c) Mycelium	d) Prothallus
------------	-----------	--------------	---------------

721) Total number of amino acid in insulin are .

✓a) 51	b) 141	c) 151	d) 50
--------	--------	--------	-------

722) Linnaeus published the list of names of plants in .

a) 1723	b) 1733	c) 1743	✓d) 1753
---------	---------	---------	----------

723) Apicomplexans move by

a) Tube feet	b) Cilia	✓c) Flexing	d) Pseudopodia
--------------	----------	-------------	----------------

724) The integumentary and nervous system are developed from .

a) Endoderm	b) Mesoderm	✓c) Ectoderm	d) Mesoglea
-------------	-------------	--------------	-------------

725) Tiny thin walled ducts called parabronchi are present in the lungs of .

a) Mammals	b) Amphibians	✓c) Birds	d) Reptiles
------------	---------------	-----------	-------------

726) Which of the following has tube type digestive system?

✓a) Cockroach	b) Amoeba	c) Hydra	d) Planaria
---------------	-----------	----------	-------------

727) The cell walls of most bacteria have a unique macromolecule called .

a) Teichoic acid	b) Lipoprotein	✓c) Peptidoglycan	d) Polysaccharide
------------------	----------------	-------------------	-------------------

728) Stomach empties into duodenum through .

✓a) Pyloric sphincter	b) Anal sphincter	c) Ileocolic sphincter	d) Cardiac sphincter
-----------------------	-------------------	------------------------	----------------------

729) RNA constitutes 1.1 % of the total weight of a .

a) Bacterial cell	✓b) Mammalian cell	c) Algal cell	d) Fungal cell
-------------------	--------------------	---------------	----------------

730) In Yeast pyruvic acid is converted to .

a) Acetic acid	b) Lactic acid	✓c) Ethyl alcohol	d) Methyl alcohol
----------------	----------------	-------------------	-------------------

731) Which one of the following is anaerobic bacteria

a) E.Coli	b) Spirochete	✓c) Pseudomonas	d) Campylobacter
-----------	---------------	-----------------	------------------

732) RNA sequencing also indicates that green algae and the plants form a .

✓a) Monophyletic lineage	b) Polyphyletic lineage	c) Biphyletic lineage	d) Tetraphyletic lineage
--------------------------	-------------------------	-----------------------	--------------------------

733) Palade was the first person to study the .

a) Lysosomes	✓b) Ribosomes	c) Polysomes	d) Peroxisomes
--------------	---------------	--------------	----------------

734) Kingdom Animalia include eukaryotic multicellular .



✓a) Consumers	b) Reducers	c) Producers	d) Decomposers
---------------	-------------	--------------	----------------

735) Hydathodes are associated with

a) Transpiration	✓b) Guttation	c) Conduction	d) None of these
------------------	---------------	---------------	------------------

736) The protozoans having two kinds of nuclei .

a) Amoeba	✓b) Ciliates	c) Zooflagellates	d) Actinopods
-----------	--------------	-------------------	---------------

737) Which statement about the chemiosmotic mechanism is not true ?

a) The membrane is question is the inner mitochondrial membrane	b) Proton pumping is associated with respiratory chain	✓c) Protons return through the membrane by way of a channel protein	d) Protons are pumped across a membrane
---	--	---	---

738) In most sponges this spongocoel may be divided into flagellated chambers or canals , lined by flagellated .

✓a) Choanocytes	b) Pinacocytes	c) Amoebocytes	d) Phagocytes
-----------------	----------------	----------------	---------------

739) Bacteria without any flagella are called

a) Peritrichous	✓b) Atrichous	c) Monotrichous	d) None of these
-----------------	---------------	-----------------	------------------

740) Bacteria that cannot synthesize their organic compounds from simple inorganic substances are .

a) Autotrophs	✓b) Heterotrophs	c) Symbionts	d) Lichen
---------------	------------------	--------------	-----------

741) The left systemic arch disappears in .

a) Amphibians	✓b) Birds	c) Reptiles	d) Fishes
---------------	-----------	-------------	-----------

742) Chlorophylls are insoluble in .

a) Alcohol	b) Acetone	✓c) Water	d) Carbon tetra chloride
------------	------------	-----------	--------------------------

743) The size of prokaryotic ribosome is .

a) 30S	b) 50S	✓c) 70S	d) 80S
--------	--------	---------	--------

744) The process of taking in liquid material by cell membrane is called .

✓a) Pinocytosis	b) Exocytosis	c) Phagocytosis	d) Rmphocytosis
-----------------	---------------	-----------------	-----------------

745) Enlargement of spleen is seen in .

a) Blood cancer	b) Thalassaemia	c) Odema	✓d) Hepatitis
-----------------	-----------------	----------	---------------

746) Sugar is formed during .

a) Dark independent reactions	b) Dark dependent reactions	✓c) Light independent reactions	d) Light dependent reactions
-------------------------------	-----------------------------	---------------------------------	------------------------------

747) Cardiac sphincter is present at the junction of .

a) Oesophagus and duodenum	✓b) Oesophagus and stomach	c) Jejunum and ileum	d) Heart and oesophagus
----------------------------	----------------------------	----------------------	-------------------------

748) Robert Brown reported the presence of .

a) Lysosome	b) Ribosomes	c) Mitochondria	✓d) Nucleus
-------------	--------------	-----------------	-------------



749) Known species of plants are about .

a) 260,000	b) 160,000	✓c) 360,000	d) 460,000
------------	------------	-------------	------------

750) Independent evolutionary unit is

✓a) Species	b) Genus	c) Population	d) Family
-------------	----------	---------------	-----------

751) The casparian strips are present in .

✓a) Cortex cells of roots	b) Cells of pericycle	c) Endodermis cells of roots	d) Cells of phloem
---------------------------	-----------------------	------------------------------	--------------------

752) The soluble part of the cytoplasm is called .

a) Stroma	b) Gel	✓c) Cytosol	d) Matrix
-----------	--------	-------------	-----------

753) The rate of transpiration doubles by every rise of temperature about .

a) 5°C	✓b) 10°C	c) 15°C	d) 20°C
--------	----------	---------	---------

754) Which statement about oxidative phosphorylation is not true?

✓a) Its functions can be served equally well by fermentation	b) In eukaryotes , it takes place in mitochondria	c) It requires aerobic conditions	d) It is the formation of ATP during operation of the respiratory chain
--	---	-----------------------------------	---

755) The absorptive nutrition of fungi is aided by .

a) Spore formation	✓b) Their large surface area - volume ratio	c) They form fruiting bodies	d) None of these
--------------------	---	------------------------------	------------------

756) The total water pulled up in the leaves in transpired, except about \_\_\_\_\_ which is used by plant in various activities .

✓a) 1 %	b) 2%	c) 5 %	d) 10 %
---------	-------	--------	---------

757) Flame cell are excretory cells of .

✓a) Flat worms	b) Segmented worms	c) Insects	d) Round worms
----------------	--------------------	------------	----------------

758) The vitamins are essential raw material for the synthesis of

a) Activators	b) Co factor	✓c) Co enzyme	d) Prosthetic group
---------------	--------------	---------------	---------------------

759) Nucleic acids have special affinity for .

a) Acidic proteins	✓b) Basic proteins	c) Alkaline proteins	d) Neutral proteins
--------------------	--------------------	----------------------	---------------------

760) In haemorrhage the \_\_\_\_\_ loses its elasticity .

✓a) Arteries	b) Veins	c) Capillaries	d) None of these
--------------	----------	----------------	------------------

761) The main sites of exchange of gases in plants are .

✓a) Stomata	b) Lenticel	c) Cuticle	d) Epidermis
-------------	-------------	------------	--------------

762) The AIDS was reported by some physicians in early .

a) 1940's	b) 1960's	✓c) 1980's	d) 2000's
-----------	-----------	------------	-----------



763) According to Lock and Key model the active site is a .

<input checked="" type="checkbox"/> a) Rigid structure	b) Flexible structure	c) Liquid structure	d) Enzyme
--	-----------------------	---------------------	-----------

764) Parabronchii are present in .

a) Fishes	b) Reptiles	<input checked="" type="checkbox"/> c) Birds	d) Mammals
-----------	-------------	--	------------

765) Development of protective layers around megasporangium is called .

a) Microsporangium	b) Embryo sac	<input checked="" type="checkbox"/> c) Integument	d) None of these
--------------------	---------------	---	------------------

766) Biology is short of laws because of .

<input checked="" type="checkbox"/> a) Exclusive nature of life	b) Large population of human	c) Less falsification	d) Less tentation
---	------------------------------	-----------------------	-------------------

767) The dark reaction occurs in .

a) Cytoplasm	b) Chloroplast	<input checked="" type="checkbox"/> c) Stroma	d) Grana
--------------	----------------	---	----------

768) Of the total weight of a bacterial cell , carbohydrates constitute only .

a) 2 %	b) 1 %	<input checked="" type="checkbox"/> c) 3 %	d) 4 %
--------	--------	--	--------

769) In angiosperm , megaspore develop into female gametophyte which consist of .

a) 3 Cells	b) 5 Cells	<input checked="" type="checkbox"/> c) 7 Cells	d) 9 Cells
------------	------------	--	------------

770) \_\_\_\_\_ taking in of complex food .

<input checked="" type="checkbox"/> a) Ingestion	b) Digestion	c) Egestion	d) None of these
--	--------------	-------------	------------------

771) The process of engulf solid particles is called .

a) Pinocytosis	b) Exocytosis	<input checked="" type="checkbox"/> c) Phagocytosis	d) None of these
----------------	---------------	---	------------------

772) The basic unit of classification is .

a) Genus	b) Phylum	c) Class	<input checked="" type="checkbox"/> d) Species
----------	-----------	----------	--

773) In the mitochondria where two glycine molecules are converted into \_\_\_\_\_ .

a) Glycine	<input checked="" type="checkbox"/> b) Serine	c) ATP	d) Glycolate
------------	---	--------	--------------

774) The uphill movement of materials requires energy and is termed as \_\_\_\_\_ .

<input checked="" type="checkbox"/> a) Active transport	b) Passive transport	c) Diffusion	d) Effusion
---	----------------------	--------------	-------------

775) Blood is not involved in transport of gas in .

a) Fish	<input checked="" type="checkbox"/> b) Insects	c) Frog	d) Man
---------	--	---------	--------

776) The \_\_\_\_\_ is a short narrow tube called mesenteron stomach .

a) Hind gut	<input checked="" type="checkbox"/> b) Mid gut	c) Fore gut	d) None of these
-------------	--	-------------	------------------

777) In bryophytes , fertilization takes place in .

a) Megasporangium	b) Embryo sac	<input checked="" type="checkbox"/> c) Water	d) Microsporangium
-------------------	---------------	--	--------------------

778) The cavity that develops from the blastocoels of the embryo is .



<input checked="" type="checkbox"/> a) Pseudocoelom	b) Coelom	c) Thoracic cavity	d) No cavity develops
---	-----------	--------------------	-----------------------

779) An inhibitor is a chemical \_\_\_\_\_.

a) Enzyme	b) Protein	<input checked="" type="checkbox"/> c) Substance	d) None of these
-----------	------------	--	------------------

780) There is \_\_\_\_\_ of muscular system and nervous system in platyhelminthes .

a) Regeneration	<input checked="" type="checkbox"/> b) Degeneration	c) Both a & b	d) None of these
-----------------	---	---------------	------------------

781) In some palms when tapped , there may be a flow of sap to the extent of per day .

<input checked="" type="checkbox"/> a) 10 – 15 liters	b) 10 – 5 liters	c) 11 – 20 liters	d) None of these
---	------------------	-------------------	------------------

782) The breaking of the terminal phosphate of ATP release energy about .

a) 2 K cal	b) 3.7 K cal	c) 17.3 K cal	<input checked="" type="checkbox"/> d) 7.3 K cal
------------	--------------	---------------	--

783) Mosquito Injects \_\_\_\_\_ into human body .

a) Merozoites	b) Oocytes	c) Gametocytes	<input checked="" type="checkbox"/> d) Sporozoites
---------------	------------	----------------	--

784) Most green algae possess cell walls with .

<input checked="" type="checkbox"/> a) Cellulose	b) Chitin	c) Peptidoglycan	d) Pectin
--	-----------	------------------	-----------

785) Cuticular transpiration takes places at.

a) Morning	b) Noon	c) Evening	<input checked="" type="checkbox"/> d) Night
------------	---------	------------	--

786) Which wavelengths are mainly absorbed by chlorophyll?

<input checked="" type="checkbox"/> a) Violet blue and orange red	b) Violet and orange	c) Green and blue	d) Red and indigo
---	----------------------	-------------------	-------------------

787) In annelids the organs for excretion are .

a) Flame-cells	<input checked="" type="checkbox"/> b) Nephridia	c) Kidneys	d) None of these
----------------	--	------------	------------------

788) Correct molecular formula for chlorophyll " a " is .

<input checked="" type="checkbox"/> a) $C_{55}H_{72}O_5N_4Mg$	b) $C_{55}H_{72}O_4N_5Mg$	c) $C_{55}H_{70}O_5N_4Mg$	d) $C_{55}H_{70}O_5N_5Mg$
---	---------------------------	---------------------------	---------------------------

789) Electrodes are placed on the \_\_\_\_\_ on opposite sides of the heart .

a) Heart	b) Lungs	<input checked="" type="checkbox"/> c) Skin	d) None of these
----------	----------	---	------------------

790) The villi and microvilli in small intestine increase .

a) Assimilation	b) Mixing of food	c) Digestion	<input checked="" type="checkbox"/> d) Absorption
-----------------	-------------------	--------------	---

791) Co-enzyme is closely related to

<input checked="" type="checkbox"/> a) Vitamins	b) Proteins	c) Water	d) Lipids
---	-------------	----------	-----------

792) All seed producing plants are called .

a) Pteridophytes	<input checked="" type="checkbox"/> b) Spermatophytes	c) Trachaeophytes	d) Bryophytes
------------------	---	-------------------	---------------

793) According to one hypothesis , stomata opens due to the active transport of .

a) Sodium	<input checked="" type="checkbox"/> b) Potassium	c) Sulphur	d) Nitrogen
-----------	--	------------	-------------



794) A single Mycelium may produce upto a kilometer of new Hyphae in only .

✓a) One day	b) Five day	c) Fifteen days	d) Twenty days
-------------	-------------	-----------------	----------------

795) In the five – kingdom system of classification developed by Robert Whittaker , member of the kingdom Plantae are autotrophic , eukaryotic and .

✓a) Multicellular	b) Either unicellular or multicellular	c) Motile	d) Have sexual reproduction
-------------------	--	-----------	-----------------------------

796) How many molecules of oxygen can bind with a molecule of myoglobin .

✓a) 01	b) 02	c) 03	d) 04
--------	-------	-------	-------

797) In the  $\alpha$ - helix protein structure each turn of the helix has amino acids .

✓a) 3-6	b) 4-6	c) 5-6	d) 6-6
---------	--------	--------	--------

798) Which statement about fungal nutrition is not true ?

a) Some fungi are active predators	b) Some fungi are mutualists	✓c) Facultative parasitic fungi can grow only on their specific host	d) All fungi require mineral nutrients
------------------------------------	------------------------------	--	--

799) During fermentation , how much amount of energy present within the glucose is converted into ATP ?

a) 1 %	✓b) 2 %	c) 90 %	d) 100 %
--------	---------	---------	----------

800) Reserve food material in Cyanobacteria is

a) Starch	✓b) Glycogen	c) Fats	d) Vitamins
-----------	--------------	---------	-------------

801) Lungs are covered with double membrane sacs called .

✓a) Pleura	b) Scrotum	c) Pericardium	d) Diaphragm
------------	------------	----------------	--------------

802) In respiratory chain NADH is oxidized by .

a) Cytochrome " C "	✓b) Coenzyme	c) Cytochrome " b "	d) Cofactor
---------------------	--------------	---------------------	-------------

803) Binomial system of nomenclature was devised by .

a) E-Chatton	b) Robert Whittaker	c) Ernst Hackle	✓d) Carlous Linnaeus
--------------	---------------------	-----------------	----------------------

804) Our blood normally contains glucose .

a) 0.6 %	b) 0.8 %	c) 0.06 %	✓d) 0.08 %
----------	----------	-----------	------------

805) The chemical link between catabolism and anabolism is :

a) DNA	b) NAD	✓c) ATP	d) RNA
--------	--------	---------	--------

806) Fungus – like protists have bodies formed of threadlike structures called .

a) Fibres	b) Yarns	✓c) Hyphae	d) Twines
-----------	----------	------------	-----------

807) Which statement about enzyme is not true?



a) They consist of proteins , with or without a non protein part	b) They change the rate of catalyzed reaction	c) They are sensitive to heat	✓d) They are non specific in their action
--	---	-------------------------------	---

808) Magnesium is present in which part of chlorophyll ?

a) Phyto tail	b) Pyrrole ring	✓c) Porphyrin ring	d) Haem portion
---------------	-----------------	--------------------	-----------------

809) Water moves out of sieve tube cell by \_\_\_\_\_, lowering the hydrostatic pressure .

a) Diffusion	b) Effusion	✓c) Osmosis	d) None of these
--------------	-------------	-------------	------------------

810) Algae which take part in building coral reefs along with coral animals are .

✓a) Red algae	b) Brown algae	c) Green algae	d) Diatoms
---------------	----------------	----------------	------------

811) The citric acid cycle .

✓a) Takes place in the mitochondrion	b) Reduces two molecules of NAD for every glucose molecule processed	c) Is the same as fermentation	d) Has no connection with the respiratory chain
--------------------------------------	--	--------------------------------	---

812) Which of the following is opposite to constipation ?

a) Appendicitis	✓b) Diarrhoea	c) Anorexia nervosa	d) Dyspepsia
-----------------	---------------	---------------------	--------------

813) Golgi complex is concerned with .

a) Phagocytosis	b) Protein synthesis	c) Power house of cell	✓d) Cell secretions
-----------------	----------------------	------------------------	---------------------

814) Thalassaemia is also called .

✓a) Cooley's anaemia	b) Thomas anaemia	c) Pete's anaemia	d) Mendl's anaemia
----------------------	-------------------	-------------------	--------------------

815) An example of beautiful and delicate sponge called venus flower basket is .

a) Spongilla	✓b) Euplectella	c) Leucoselenia	d) Sycon
--------------	-----------------	-----------------	----------

816) The bryophytes are non-vascular plants .

a) Flowering plants	b) Gametophytic plants	✓c) Flowerless plants	d) Sporophytic plants
---------------------	------------------------	-----------------------	-----------------------

817) The non - hyphal unicellular fungi are .

✓a) Yeasts	b) Morels	c) Truffles	d) Puffballs
------------	-----------	-------------	--------------

818) Class cyclostomata , class chondrichthyes and class osteichthyes are included in super class .

✓a) Pisces	b) Tetrapoda	c) Cephalopoda	d) Pelecypoda
------------	--------------	----------------	---------------

819) There is an \_\_\_\_ in the life cycle of bryophytes .

a) Sexual reproduction	✓b) Alternation of generations	c) Lytic cycle	d) None of these
------------------------	--------------------------------	----------------	------------------

820) Chemotherapeutic chemical substances which are used in treatment of Infectious disease are .

a) Antibodies	b) Antigens	✓c) Antibiotics	d) Disinfectants
---------------	-------------	-----------------	------------------



821) The microspore divides by mitotic divisions to form .

a) Two male gametes	b) The tube nucleus	c) Fusion nucleus	✓d) Both a & b
---------------------	---------------------	-------------------	----------------

822) The system of classification associated with three principal modes of nutrition photosynthesis , absorption and ingestion was proposed by .

✓a) Robert Whittaker	b) Carlous Linnaeus	c) Margulis & Schawartz	d) Ernst Hackel
----------------------	---------------------	-------------------------	-----------------

823) Some enzymes require a \_\_\_\_\_ for their proper functioning .

a) Co-enzyme	✓b) Co-factor	c) Holoenzyme	d) Apoenzyme
--------------	---------------	---------------	--------------

824) A plant requires potassium for .

a) Synthesizing protein	✓b) Opening and closing of stomata	c) Synthesizing chlorophyll	d) All of the these
-------------------------	------------------------------------	-----------------------------	---------------------

825) How much of the cytoplasm of red blood cells have haemoglobin .

a) 91%	b) 93%	✓c) 95%	d) 97%
--------	--------	---------	--------

826) Bacteria range in size from about 0.1 to \_\_\_\_\_  $\mu\text{m}$  over a single dimension .

a) 500	✓b) 600	c) 700	d) 800
--------	---------	--------	--------

827) Hydra belongs to Phylum .

✓a) Mollusca	b) Cnidaria	c) Annelida	d) Arthropoda
--------------	-------------	-------------	---------------

828) Because of their fermenting ability , yeasts ( *Saccharomyces cerevisiae* ) are used in .

a) Bread	b) Liquor	✓c) Both a & b	d) None of these
----------	-----------	----------------	------------------

829) The Prototheria is that group which has characteristics of both \_\_\_\_\_ .

✓a) Birds and fishes	b) Reptiles and mammals	c) Reptile and amphibians	d) None of these
----------------------	-------------------------	---------------------------	------------------

830) In the first step of the citric acid cycle , acetyl CoA reacts with oxaloacetate to form.

a) Pyruvate	✓b) Citrate	c) NADH	d) ATP
-------------	-------------	---------	--------

831) Carcinogenic aflatoxins are produced by .

✓a) Aspergillus	b) Penicillium	c) Neurospora	d) Ustilago
-----------------	----------------	---------------	-------------

832) Outward and upward movement of the ribs causes increase in the chest cavity and reduces \_\_\_\_\_ .

a) Space	✓b) Pressure	c) Both a & b	d) None of these
----------	--------------	---------------	------------------

833) All members of a clone are genetically identical except when a .

✓a) Mutation occurs	b) Hazard occurs	c) Disease occurs	d) None of these
---------------------	------------------	-------------------	------------------

834) In free state , glucose is present in .

✓a) Dates	b) Amylose	c) Glycogen	d) Cellulose
-----------	------------	-------------	--------------

835) Capsomeres are subunits which form capsid of virion . These capsomeres are chemically .

a) Lipids	b) Nucleic acids	c) Carbohydrates	✓d) Proteins
-----------	------------------	------------------	--------------



836) A heterogeneous group of compound related to fatty acid is .

a) Proteins	✓b) Lipid	c) Carbohydrate	d) Nucleic Acid
-------------	-----------	-----------------	-----------------

837) Virtually all biologists agree that animals evolved from \_\_\_\_\_ .

a) Protista	✓b) Protoctista	c) Plantae	d) Algae
-------------	-----------------	------------	----------

838) After fertilization ovule is changed into .

a) Ovary	✓b) Seed	c) Fruit	d) Flower
----------	----------	----------	-----------

839) Because of the structural similarity with the substrate , competitive inhibitors may be selected by the binding sites , but are not able to activate the .

✓a) Catalytic sites	b) Accelerating sites	c) Inactive sites	d) Active sites
---------------------	-----------------------	-------------------	-----------------

840) Which fungus is found growing on a spoiling moist bread , fruit .

✓a) Rhizopus	b) Penicillium	c) Aspergillus	d) Candida
--------------	----------------	----------------	------------

841) The cell wall of fungus contains .

a) Cellulose	✓b) Chitin	c) Calcium carbonate	d) None of these
--------------	------------	----------------------	------------------

842) Each photon of light excites .

a) Many electrons	b) 3 electrons	c) 2 electrons	✓d) Single electrons
-------------------	----------------	----------------	----------------------

843) The optimum pH of Enterokinase is.

a) 1.50	b) 5.50	c) 3.50	✓d) 7.50
---------	---------	---------	----------

844) Primary function of flagella is to help in .

a) Induction	✓b) Motility	c) Conjugation	d) Adhesion
--------------	--------------	----------------	-------------

845) The sporophyte of bryophytes is usually differentiated into foot , seta and .

a) Slime	b) Calyptra	✓c) Capsule	d) Protonema
----------	-------------	-------------	--------------

846) Sharks , skates and rays are examples of class .

✓a) Chondrichthyes	b) Osteichthyes	c) Cyclostomata	d) Dipnoi
--------------------	-----------------	-----------------	-----------

847) Sori are protected by the bent margin of the leaflet , forming false .

✓a) Indusium	b) Stomium	c) Annulus	d) Capsule
--------------	------------	------------	------------

848) Important vector in modern genetic .

a) Nucleoid	✓b) Plasmid	c) Mesosome	d) Ribosome
-------------	-------------	-------------	-------------

849) The cofactor usually acts as " bridge " between the .

✓a) Enzyme & substrate	b) Enzyme & product	c) Coenzyme & substrate	d) Cofactor & substrate
------------------------	---------------------	-------------------------	-------------------------

850) The length of duodenum of human is about .

✓a) 20 - 25 cm	b) 10 - 15 cm	c) 25 - 40 cm	d) 10 - 35 cm
----------------	---------------	---------------	---------------

851) Hepatitis B is also called .



a) Delta hepatitis	✓b) Serum hepatitis	c) Infection hepatitis	d) Infusion hepatitis
--------------------	---------------------	------------------------	-----------------------

852) Cysts are dormant, thick-walled, desiccation resistant forms and develop during .

a) Late stage of cell growth	b) Differentiation of reproductive cells	✓c) Differentiation of vegetative cells	d) During conjugation
------------------------------	--	---	-----------------------

853) The basic unit of classification is

a) Genus	b) Phylum	✓c) Species	d) Class
----------	-----------	-------------	----------

854) During breathing no state of air remains in the lungs of .

✓a) Mammals	b) Amphibian	c) Birds	d) Reptiles
-------------	--------------	----------	-------------

855) Tay - sach's disease is because of the absence of enzyme involved in catabolism of .

a) Protein	b) Glycogen	✓c) Lipids	d) Nucleic acid
------------	-------------	------------	-----------------

856) From one pyruvate passing through Kreb's cycle  $\text{FADH}_2$  molecules are formed .

✓a) 1	b) 2	c) 3	d) 4
-------	------	------	------

857) Digestion killing and softening of food that take place in the \_\_\_\_\_ medium .

✓a) Acidic	b) Basic	c) Neutral	d) None of these
------------	----------	------------	------------------

858) Transpiration provides the necessary \_\_\_\_\_ or force .

✓a) Energy	b) Pressure	c) Tension	d) None of these
------------	-------------	------------	------------------

859) The major locomotory structures in bacteria are

✓a) Flagella	b) Fimbriae	c) Pili	d) Cilia
--------------	-------------	---------	----------

860) Coral reefs are mostly formed of .

✓a) Calcium carbonate	b) Silica	c) Chitin	d) Lignin
-----------------------	-----------	-----------	-----------

861) The optimum pH of salivary amylase is.

a) 2.80	✓b) 6.80	c) 4.80	d) 8.80
---------	----------	---------	---------

862) Air spaces between mesophyll cells of a leaf comprises \_\_\_\_\_ of the total volume .

a) 20 %	b) 30 %	✓c) 40 %	d) 50 %
---------	---------	----------	---------

863) The presence of notochord is the character of .

a) Arthropoda	b) Mollusca	c) Nematoda	✓d) Chordate
---------------	-------------	-------------	--------------

864) Globular proteins differ from fibrous protein in .

a) Having amino acids	b) Their repeating units joined by peptide bond	✓c) Being soluble in aqueous medium	d) Being non-crystalline
-----------------------	---	-------------------------------------	--------------------------

865) Glycolysis occurs in which part of the cell ?

a) Stroma	✓b) Cytosol	c) Thylakoid membrane	d) Mitochondrial matrix
-----------	-------------	-----------------------	-------------------------

866) The skin of osteichthyes has embedded dermal scales which may be .



a) Ganoid	b) Cycloid	c) Ctenoid	✓d) All of these
-----------	------------	------------	------------------

867) Hepatitis is an inflammation of .

a) Stomach	b) Pancreas	✓c) Liver	d) Kidney
------------	-------------	-----------	-----------

868) Haem portion of haemoglobin is also a porphyrin ring but containing an iron atom instead of .

a) Nitrogen atom	b) Potassium atom	c) Sulphur atom	✓d) Magnesium atom
------------------	-------------------	-----------------	--------------------

869) Non-septate hyphae are called \_\_\_\_\_ hyphae .

a) Monokaryotic	b) Dikaryotic	c) Mononucleatic	✓d) Coenocytic
-----------------	---------------	------------------	----------------

870) The relaxed period of heart chambers is called diastole .

a) Systole	✓b) Diastole	c) Both a & b	d) None of these
------------	--------------	---------------	------------------

871) Amoebic dysentery in .

a) Amoeba	b) Plasmodium	✓c) Entamoeba histolytica	d) Trypanosoma
-----------	---------------	---------------------------	----------------

872) In planaria each of these main branches of intestine give off numerous small branches which end blindly called \_\_\_\_\_ .

a) Rectum	b) Crop	✓c) Caecae	d) None of these
-----------	---------	------------	------------------

873) Tetracycline and its related compounds cause .

a) Allergy	✓b) Discoloration of teeth	c) Deafness	d) Skin disorder
------------	----------------------------	-------------	------------------

874) Which one of the following is employed in treatment of cancer.

a) Antibiotics and vaccination	✓b) Radiotherapy and chemotherapy	c) Chemotherapy and Antibodies	d) All of these
--------------------------------	-----------------------------------	--------------------------------	-----------------

875) Mosquito injects plasmodium to human in the form of .

✓a) Sporozoites	b) Gametocytes	c) Merozoites	d) Cysts
-----------------	----------------	---------------	----------

876) Lipid present in cell membranes .

a) 10 - 20 %	✓b) 20 - 40 %	c) 30 - 40 %	d) None of these
--------------	---------------	--------------	------------------

877) Glycolysis is the breakdown of glucose up to the formation of .

a) NAD	b) Sulphuric acid	c) ATP	✓d) Pyruvic acid
--------	-------------------	--------	------------------

878) Bacteriophage replicates only in \_\_\_\_\_ cell .

a) Animal	b) Plant	✓c) Bacterial	d) Fungal
-----------	----------	---------------	-----------

879) Myoglobin is also known as \_\_\_\_\_ haemoglobin .

a) Liver	b) Heart	✓c) Muscle	d) None of these
----------	----------	------------	------------------

880) Mycorrhizal fungus provides plants minerals such as .

a) Calcium	b) Magnesium	✓c) Phosphorus	d) Potassium
------------	--------------	----------------	--------------

881) The number of edible mushroom species are about .



a) 160	✓b) 200	c) 300	d) 400
--------	---------	--------	--------

882) The Zygomycetes .

a) Have hyphae without regularly occurring cross walls	b) Produce motile gametes	✓c) Are haploid throughout their life	d) Both a & c
--	---------------------------	---------------------------------------	---------------

883) Which of the following statements about ribosomes is correct ?

a) They are structurally different from ribosomes	b) They are enclosed in their own membrane	c) They are concentrated in the cisternal space of rough ER	✓d) They are attached to cisternal surface
---	--	---	--

884) The sporophyte of bryophytes is .

a) Haploid	✓b) Diploid	c) Triploid	d) Tetraploid
------------	-------------	-------------	---------------

885) Mesosomes are internal extensions of .

a) Cell wall	b) Golgi complex	✓c) Cell membrane	d) Endoplasmic reticulum
--------------	------------------	-------------------	--------------------------

886) The class Angiospermae is divided into two sub - classes according to the number of cotyledons in the \_\_\_\_\_ .

a) Zygote	b) Seed	✓c) Embryo	d) None of these
-----------	---------	------------	------------------

887) Covalently bounded non-protein part is called .

a) Co-enzyme	✓b) Prosthetic group	c) Activator	d) Co-factor
--------------	----------------------	--------------	--------------

888) Sieve tube cells and companion cells communicate with each other through .

a) Sieve pores	b) Casparian strip	✓c) Plasmodesmata	d) Cell membranes
----------------	--------------------	-------------------	-------------------

889) Animals obtain carbohydrates mainly from .

a) Glucose	✓b) Starch	c) Sucrose	d) Glycogen
------------	------------	------------	-------------

890) Which of the following plastids are found in underground part of the plants ?

a) Mature cell	b) Germinating cell	✓c) Non-dividing cell	d) Dividing cell
----------------	---------------------	-----------------------	------------------

891) Which statement about the chemiosmotic mechanism is not true.

a) Protons return through the membrane by way of a channel protein	b) Protons are pumped across a membrane	✓c) The membrane in question is the inner mitochondria membrane	d) ATP is required for the protons to return
--	---	---	--

892) In which group of fungi sexual reproduction has not been observed ?

a) Zygomycota	b) Ascomycota	c) Basidiomycota	✓d) Deuteromycota
---------------	---------------	------------------	-------------------

893) Basidiomycetes are named so for their characteristics , club - shaped sexual reproductive structure , the .

a) Antheridium	b) Conidium	c) Ascus	✓d) Basidium
----------------	-------------	----------	--------------

894) Dugesia is a free - living flatworm with a ciliated outer surface . It is commonly called .

a) Tape worm	b) Liver fluke	c) Blood fluke	✓d) Planaria
--------------	----------------	----------------	--------------



895) Bacteria produce capsule , which is made up of repeating \_\_\_\_\_ units , and of protein , or of both .

a) Monosaccharide	✓b) Polysaccharide	c) Oligosaccharide	d) Disaccharide
-------------------	--------------------	--------------------	-----------------

896) The megasporangium after fertilization is transformed into a seed and the integuments become .

a) Fruit	b) Fruit walls	✓c) Seed coats	d) Embryo sac
----------	----------------	----------------	---------------

897) Enzyme are very \_\_\_\_\_ in their action .

✓a) Specific	b) Fast	c) Slow	d) General
--------------	---------	---------	------------

898) In human stomach HCl is secreted by .

a) Mucous cells	b) Zymogen cells	✓c) Oxyntic / parietal cells	d) Chief cells
-----------------	------------------	------------------------------	----------------

899) What is not true for ciliates .

a) Flexible outer covering , the pellicle	✓b) Without nucleoli	c) Maybe sessile	d) Do not ingest bacteria
---	----------------------	------------------	---------------------------

900) Naturally induced immunity is also called .

✓a) Auto immune	b) Anti serum	c) Passive immunity	d) None of these
-----------------	---------------	---------------------	------------------

901) Bryophytes male sex organ is called .

✓a) Antheridia	b) Archegonia	c) Both a & b	d) None of these
----------------	---------------	---------------	------------------

902) Organelle of symbiotic origin is .

a) Cell wall	b) Cell membrane	✓c) Mitochondria	d) Vacuole
--------------	------------------	------------------	------------

903) Pasteurization is a technique developed by .

a) Edward Jenner	b) Robert Koch	c) Chamberlandt	✓d) Louis Pasteur
------------------	----------------	-----------------	-------------------

904) Complex animals have evolved transport system in the form of blood vascular system or \_\_\_\_\_ .

a) Respiratory system	b) Excretory	✓c) Circulatory system	d) None of these
-----------------------	--------------	------------------------	------------------

905) Which one of the following is the characteristics of monocots ?

a) 4 or 5 petals	✓b) Scattered vascular bundles in stem	c) Netted veins	d) Woody stems
------------------	--	-----------------	----------------

906) The closest relative of fungi are probably .

a) Animals	✓b) Slime molds	c) Brown algae	d) Vascular plants
------------	-----------------	----------------	--------------------

907) The rate of an enzyme catalyzed reaction.

a) Is constant under all conditions	b) Decrease as substrate concentration increase	c) Cannot be measured	✓d) Can be reduced by inhibitors
-------------------------------------	---	-----------------------	----------------------------------

908) Although the flow of sap is ordinarily \_\_\_\_\_ .

✓a) Slow	b) Fast	c) Both a & b	d) None of these
----------	---------	---------------	------------------

909) Haemoglobin is an example of which functional class of proteins ?



a) Contractile	b) Structural	✓c) Transport	d) Regulatory
----------------	---------------	---------------	---------------

910) Mucus in saliva is made of .

a) Glycolipids	✓b) Proteins	c) Phospholipids	d) Transport molecules
----------------	--------------	------------------	------------------------

911) Phylogeny describes a species .

a) Morphological similarities with other species	✓b) Evolutionary history	c) Reproductive compatibilities with other species	d) Geographical distribution
--	--------------------------	--	------------------------------

912) Carbon dioxide enters the leaves through.

a) Epidermis	b) Cuticle	c) Air spaces	✓d) Stomata
--------------	------------	---------------	-------------

913) Viruses range in size from 250 ( nm ) of poxviruses to the 20 nm of .

✓a) Parvoviruses	b) Provirus	c) Retrovirus	d) Protovirus
------------------	-------------	---------------	---------------

914) When tuft of flagella is present at each of two poles in bacteria is known as .

a) Artichous	b) Lophorichous	c) Peritrichous	✓d) Amphitrichous
--------------	-----------------	-----------------	-------------------

915) The smallest bacteria are approximately the size of the largest viruses i.e.

a) Paramyxoviruses	b) Adenoviruses	c) Parvoviruses	✓d) Poxviruses
--------------------	-----------------	-----------------	----------------

916) In fungi spores are produced inside the reproductive structures called .

a) Conidia	✓b) Sporangia	c) Basidia	d) Ascocarps
------------	---------------	------------	--------------

917) The earliest group of vascular plants is .

a) Lycopsidea	b) Sphenopsida	✓c) Psilopsida	d) Pteropsida
---------------	----------------	----------------	---------------

918) The active site of an enzyme.

a) Never changes	b) Forms no chemical bond with substrate	✓c) Determines , by its specificity of the enzyme	d) Looks like a lump projecting from the surface of an enzyme
------------------	--	---	---

919) Ancylostoma duodenale is biological name of .

a) Flat worm	b) Tape worm	✓c) Round worm	d) Fluke
--------------	--------------	----------------	----------

920) The heart beat cycle described above starts when the sino-atrial node .

a) Diastole	✓b) Pace maker	c) A - V node	d) None of these
-------------	----------------	---------------	------------------

921) Hunger pangs usually begin \_\_\_\_\_ hours after the previous meal or in less time for some people .

a) 12 - 18	✓b) 12 - 24	c) 8 - 10	d) 8 - 12
------------	-------------	-----------	-----------

922) When deprived of oxygen , yeast cells obtain energy by fermentation producing carbon dioxide , ATP , and.

a) Acetyl CoA	✓b) Ethyl alcohol	c) Lactate	d) Pyruvate
---------------	-------------------	------------	-------------

923) Helical shape of polypeptide is due to presence within molecule .

a) Covalent bond	✓b) Hydrogen bond	c) Disulphide bond	d) Peptide bond
------------------	-------------------	--------------------	-----------------



924) \_\_\_\_\_ occur in angiosperm life cycle .

a) Fertilization	b) Single fertilization	✓c) Double fertilization	d) None of these
------------------	-------------------------	--------------------------	------------------

925) The enzyme involved in viral replication are synthesized .

a) On the viral ribosomes	✓b) On the interior surface of viral membrane	c) By the host cell	d) On the interior surface of viral coat
---------------------------	---	---------------------	--

926) Hepatitis A is transmitted by contact with \_\_\_\_\_ from infected individuals .

a) Water	✓b) Faeces	c) Blood	d) Spit
----------	------------	----------	---------

927) How many water molecules are formed when glycylalanine is formed ..

✓a) 1	b) 2	c) 3
-------	------	------

928) Pepsin is secreted by .

a) Mucus cell	✓b) Zymogen cell	c) Parietal cell	d) Oxyntic cell
---------------	------------------	------------------	-----------------

929) AIDS is caused by .

a) Fungi	b) Bacteria	✓c) Virus	d) Algae
----------	-------------	-----------	----------

930) Accumulation of bile in blood causes the condition called .

a) Constipation	b) Ulcer	✓c) Jaundice	d) Piles
-----------------	----------	--------------	----------

931) SER also helps in metabolism of a number of different types of molecules , particularly .

a) Carbohydrates	b) Proteins	✓c) Lipids	d) None of these
------------------	-------------	------------	------------------

932) Bacteria that can synthesize organic compounds from simple inorganic substances are known as .

✓a) Autotrophs	b) Heterotrophs	c) Symbionts	d) Lichen
----------------	-----------------	--------------	-----------

933) The pore by which water enters the body of sponges is called.

✓a) Ostia	b) Mouth	c) Pinacocytes	d) Osculum
-----------	----------	----------------	------------

934) Diploblastic animals are included in phylum \_\_\_\_\_ .

a) Aschelminthes	b) Echinodermata	c) Protozoa	✓d) Cnidaria
------------------	------------------	-------------	--------------

935) Lichen is a symbiotic relationship between an alga and .

a) Gymnosperm	b) Pteridophyte	✓c) Fungus	d) Angiosperm roots
---------------	-----------------	------------	---------------------

936) A heterosporous plant is one that .

a) Produces a gametophyte that bears both sex organs	✓b) Produces microspores and megaspores in separate sporangia , giving rise to separate male and female gametophytes	c) Is a seedless vascular plant	d) Reproduces only sexually
--	--	---------------------------------	-----------------------------

937) The use of \_\_\_\_\_ which stimulate the production of antibodies in the body , and making a person immune .

a) Antibodies	✓b) Vaccines	c) Antigen	d) None of these
---------------	--------------	------------	------------------



938) The primary cell wall is composed cellulose and some deposition of pectin and .

a) Lignin	b) Silica	✓c) Hemicellulose	d) Chitin
-----------	-----------	-------------------	-----------

939) The basic element of organic compound is.

a) Hydrogen	b) Nitrogen	c) Carbon	d) Oxygen
-------------	-------------	-----------	-----------

940) Deficiency of phosphorus in plants causes.

a) Chlorosis	✓b) Stunted growth of roots	c) Premature death of plants	d) Yellowing of leaf margins
--------------	-----------------------------	------------------------------	------------------------------

941) The interval of time until the completion of next division is known as .

a) Incubation time	✓b) Generation time	c) Multiplication time	d) Cell cycle
--------------------	---------------------	------------------------	---------------

942) The example of sub - phylum urochordata is .

✓a) Molgula	b) Amphioxus	c) Mytilis	d) Cotylosaurs
-------------	--------------	------------	----------------

943) The tricuspid and bicuspid valves close , and \_\_\_\_\_ sound is made .

✓a) Lubb	b) Dubb	c) Both a & b	d) None of these
----------	---------	---------------	------------------

944) The cytoplasm of prokaryotic cell lacks membrane bound organelles and

✓a) Cytoskeleton	b) Ribosomes	c) Lipid granules	d) Enzymes
------------------	--------------	-------------------	------------

945) First discovered antibiotic is .

a) Lovastatin	✓b) Cyclosporine	c) Penicillin	d) Ergotone
---------------	------------------	---------------	-------------

946) \_\_\_\_\_ forms the lining of digestive tract and forms other glands of digestive system .

a) Ectoderm	✓b) Endoderm	c) Mesoderm	d) None of these
-------------	--------------	-------------	------------------

947) The member of capsomere present in herpes virus is .

a) 152 capsomere	✓b) 162 capsomere	c) 252 capsomere	d) 100 capsomere
------------------	-------------------	------------------	------------------

948) Only left aortic arch is present in .

✓a) Mammals	b) Amphibians	c) Reptiles	d) Birds
-------------	---------------	-------------	----------

949) Which statement about chlorophyll a is not true ?

✓a) It contains terminal carbonyl group	b) It contains porphyrin ring	c) It contains phytol tail	d) It contains magnesium
---	-------------------------------	----------------------------	--------------------------

950) The heart is 3 - chambered with respect to atria and ventricle in .

a) Fishes	b) Birds	c) Reptiles	✓d) Amphibians
-----------	----------	-------------	----------------

951) Which is a Bryophyte ?

a) Club mosses	✓b) Mosses	c) Ferns	d) Whisk ferns
----------------	------------	----------	----------------

952) In the disease glycogenosis Type II , glycogen fills the liver and .

a) Pancreas	b) Lungs	c) Kidneys	✓d) Muscles
-------------	----------	------------	-------------



953) Poisonous mushrooms are called .

a) Truffles	b) Morels	✓c) Toad Stools	d) Agaricus
-------------	-----------	-----------------	-------------

954) Which statement about plastids is true ?

a) They are surrounded by a single membrane	b) They are the powerhouse of cell	✓c) They contain DNA and ribosomes	d) They are found in all organisms
---	------------------------------------	------------------------------------	------------------------------------

955) An obese person is more likely to suffer from .

a) High blood pressure	b) Heart disease	c) Diabetes mellitus	✓d) All of these
------------------------	------------------	----------------------	------------------

956) Vacuoles are present \_\_\_\_\_ in .

a) Animal cell	b) Plant cell	✓c) Both a & b	d) None of these
----------------	---------------	----------------	------------------

957) Five kingdom system of classification proposed by Margulis and Schwartz is not based on .

a) Genetics	✓b) Nucleic acid	c) Cellular organization	d) Mode of nutrition
-------------	------------------	--------------------------	----------------------

958) Respiratory distress syndrome is common in .

✓a) Premature infants	b) Infants	c) None of these	d) Adult
-----------------------	------------	------------------	----------

959) The heart of fishes is .

✓a) Single circuit	b) Double circuit	c) Triple circuit	d) Multi circuit
--------------------	-------------------	-------------------	------------------

960) Pseudocoelom is characteristic feature of .

✓a) Aschelminthes	b) Annelida	c) Porifera	d) Mollusca
-------------------	-------------	-------------	-------------

961) When cocci form long chain of cells then arrangement is called as .

a) Tetrad	b) Diplococcus	c) Sarcina	✓d) Streptococci
-----------	----------------	------------	------------------

962) Which of the following possess leaf like blades , stem like stipes , and root like anchoring holdfast ?

a) Eucalyptus	b) Agaricus	✓c) Kelps	d) Phytophthora
---------------	-------------	-----------	-----------------

963) \_\_\_\_\_ characteristic movements of the digestive tract .

✓a) Peristalsis	b) Anti - peristalsis	c) Bolus	d) None of these
-----------------	-----------------------	----------	------------------

964) The Zygomycetes :

✓a) Have hyphae without regularly occurring cross walls	b) Produce motile gametes	c) Are haploid throughout their life	d) Answer a and c are both correct
---	---------------------------	--------------------------------------	------------------------------------

965) The reptiles of today have been derived from the dinosaurs of .

a) Jurassic	b) Cretaceous	✓c) Both a & b	d) Triassic
-------------	---------------	----------------	-------------

966) Which statement about the nuclear envelope is not true ?

a) It has pores	✓b) Its inner membrane bears ribosomes	c) It is a double membrane structure	d) RNA and some proteins pass through it
-----------------	--	--------------------------------------	--

967) Some fungi are used to control environmental pollution , the process is called



a) Biological control	✓b) Bioremediation	c) Fungal culture	d) Hydroponic
-----------------------	--------------------	-------------------	---------------

968) Discharge of blood from blood vessel is called as .

a) Stroke	b) Heart attack	c) Thrombosis	✓d) Haemorrhage
-----------	-----------------	---------------	-----------------

969) Each chromosome consists of two identical chromatids at the beginning of cell division which are held together at .

✓a) Protein complex	b) Centrosome	c) Centromere	d) Central sap
---------------------	---------------	---------------	----------------

970) Poisons like cyanide , antibiotics , anti-metabolites and some drugs are examples of .

a) Holoenzymes	✓b) Inhibitors	c) Coenzymes	d) Enzymes
----------------	----------------	--------------	------------

971) A Square of 4 cocci is termed as .

a) Streptococcus	b) Sarcina	c) Diplococcus	✓d) Tetrad
------------------	------------	----------------	------------

972) The megasporophylls bearing ovules are not folded and joined at the margins to form an \_\_\_\_\_ .

a) Ovule	b) Seed	✓c) Ovary	d) Fruit
----------	---------	-----------	----------

973) The common name of Allium cepa is .

✓a) Piyaz	b) Bathu	c) Amaltas	d) Chana
-----------	----------	------------	----------

974) The \_\_\_\_\_ is formed on its inner surface .

a) Primary wall	✓b) Secondary wall	c) Tertiary wall	d) None of these
-----------------	--------------------	------------------	------------------

975) Cyclic phosphorylation happens when the chloroplast runs low on \_\_\_\_\_ for Calvin cycle .

a) ADP	✓b) ATP	c) NADP	d) NADPH
--------	---------	---------	----------

976) Reserve food material in cyanobacteria is

✓a) Glycogen	b) Cellulose	c) Glucose	d) Starch
--------------	--------------	------------	-----------

977) Magnesium is an important nutrient in green plants as it is an essential component of .

a) Protein	b) Chlorophyll	c) Hemoglobin	✓d) Glucose
------------	----------------	---------------	-------------

978) Optimum pH for the proper functioning of enzyme sucrase is.

a) 2.00	b) 5.50	✓c) 4.50	d) 7.60
---------	---------	----------	---------

979) Mosses are .

a) Arthropytes	b) Spermatophytes	c) Tracheophytes	✓d) Bryophytes
----------------	-------------------	------------------	----------------

980) The hind limb of birds is modified for .

a) Walking	✓b) Flying	c) Perching	d) Running
------------	------------	-------------	------------

981) Electro cardiogram which is taken by \_\_\_\_\_ machine .

✓a) Electrocardiograph	b) X - ray	c) Both a & b	d) Ultrasound
------------------------	------------	---------------	---------------

982) Non-competitive Inhibitors form enzyme inhibitor complex at a point other than the .

a) Catalytic site	✓b) Active site	c) Binding site	d) Non-catalytic site
-------------------	-----------------	-----------------	-----------------------

983) The useful insects are the honey bee that provides man with .



a) Honey	b) Wax	c) Sugar	✓d) Both a & b
----------	--------	----------	----------------

984) Pilli are primarily involved in .

a) Movement	✓b) Conjugation	c) Nutrition	d) Excretion
-------------	-----------------	--------------	--------------

985) Centriole play important role in formation of .

✓a) Cilia	b) Flagella	c) Microfilament	d) None of these
-----------	-------------	------------------	------------------

986) What statement about the nuclear envelope is not true ?

✓a) Its inner membrane bears ribosomes	b) It is a double membrane structure	c) RNA and some proteins pass through it	d) It has pores
--	--------------------------------------	--	-----------------

987) Water is more viscous than air .

a) 10 times	b) 20 times	✓c) 50 times	d) 100 times
-------------	-------------	--------------	--------------

988) The process of evolution of leaf was completed in more than .

a) 15 – 16 million year	b) 15 – 19 million year	c) 15 – 17 million year	✓d) 15 – 20 million year
-------------------------	-------------------------	-------------------------	--------------------------

989) All the animals in grade radiate are \_\_\_\_\_ .

a) Triploblastic	✓b) Diploblastic	c) Tetrablastic	d) Both a & b
------------------	------------------	-----------------	---------------

990) The process of shedding of exoskeleton is called .

a) Moulting	b) Ecdysis	c) Hydrolysis	✓d) Moulting or ecdysis
-------------	------------	---------------	-------------------------

991) A true wall that develops in newly growing cells is

✓a) Primary wall	b) Secondary wall	c) Middle lamella	d) All of these
------------------	-------------------	-------------------	-----------------

992) Harmful substances are detoxified in the liver cells by .

a) Mitochondria	b) Golgi complex	✓c) Endoplasmic reticulum	d) Nucleollus
-----------------	------------------	---------------------------	---------------

993) Insulin is a protein consisting of two polypeptide chains of amino acids held together by .

a) Peptide bonds	b) Glycosidic bonds	c) Covalent bonds	✓d) Disulfide bonds
------------------	---------------------	-------------------	---------------------

994) The first step in the replication of a bacteriophage is its attachment ( adsorption ) to host cell at .

✓a) Receptor site	b) Active site	c) Binding site	d) Adsorption site
-------------------	----------------	-----------------	--------------------

995) Sleeping sickness is spread by .

✓a) Tsetse fly	b) Mosquito	c) Trypanosoma	d) Plasmodium
----------------	-------------	----------------	---------------

996) The plant vacuole is the major contributor to the \_\_\_\_\_ .

✓a) Turgor	b) Diffusion	c) Active transport	d) None of these
------------	--------------	---------------------	------------------

997) Spirochete is a bacterium

a) Aerobic	✓b) Anaerobic	c) Facultative	d) None of these
------------	---------------	----------------	------------------

998) Which of the following is not present in protists ?



a) Flagella	✓b) Embryo	c) Cilia	d) None of these
-------------	------------	----------	------------------

999) Pili are made of special protein called

a) Flagellin	b) Tubulin	✓c) Pilin	d) Fibrinogen
--------------	------------	-----------	---------------

1000) Which of the following is not found in all bacterial cells ?

a) Cell membrane	b) Ribosomes	✓c) A nucleoid	d) Capsule
------------------	--------------	----------------	------------

1001) In cockroach, the heart is.

a) Four chambered	b) Five chambered	c) Three chambered	✓d) Thirteen chambered
-------------------	-------------------	--------------------	------------------------

1002) The harmful molluscs are .

a) Slugs	b) Shipworms	c) Oligochaeta	✓d) Gastropoda
----------	--------------	----------------	----------------

1003) Non-competitive Inhibitors form enzyme inhibitor complex at a point other than the .

a) Catalytic site	✓b) Active site	c) Binding site	d) Non-catalytic site
-------------------	-----------------	-----------------	-----------------------

1004) Type of bond associated with maintaining primary structure of protein is .

✓a) Disulfide bond	b) Peptide bond	c) Ester bond	d) Hydrogen bond
--------------------	-----------------	---------------	------------------

1005) The interval of time unit the completion of next division is known as .

a) Interphase	✓b) Generation time	c) Reproductive time	d) Growth
---------------	---------------------	----------------------	-----------

1006) Margulis and schwartz accommodate the diverse assemblage of organisms of protista into .

a) 37 phyla	✓b) 27 phyla	c) 10 phyla	d) 5 phyla
-------------	--------------	-------------	------------

1007) The valves present in the veins are called .

✓a) Bicuspid	b) Semi-lunar	c) Tricuspid	d) Aortic
--------------	---------------	--------------	-----------

1008) During oxidation of one molecule of glucose how many ATP molecules are released ?

a) 36 ATP	b) 38 ATP	✓c) 40 ATP	d) 08 ATP
-----------	-----------	------------	-----------

1009) The non protein part of enzyme responsible for its proper functioning is known as .

a) Substrate	✓b) Cofactor	c) Reactant	d) Product
--------------	--------------	-------------	------------

1010) The number of air sacs in most birds are .

a) 06	b) 07	c) 08	✓d) 09
-------	-------	-------	--------

1011) The inhibitor which may destroy the globular structure of enzyme is .

a) Competitive	b) Non-competitive	✓c) Irreversible	d) Reversible
----------------	--------------------	------------------	---------------

1012) A disease , which is highly contagious is .

a) Measles	✓b) Mumps	c) Influenza	d) Herpes
------------	-----------	--------------	-----------

1013) They are ecologically important as bioindicators of air pollution .

✓a) Lichens	b) Mycorrhizae	c) Yeast	d) Viruses
-------------	----------------	----------	------------

1014) The inner layer of most sponges is called



a) Pinacoderm	✓b) Choanoderm	c) Endoderm	d) Epiderm
---------------	----------------	-------------	------------

1015) Infolding of inner membrane of mitochondria are called as .

a) Cisternae	b) Cristae	✓c) Granum	d) Thylakoid
--------------	------------	------------	--------------

1016) An example of aerobic bacterium is

a) Camplyobacter	b) E.Coli	✓c) Pseudomonas	d) Spirochete
------------------	-----------	-----------------	---------------

1017) Transgenic plants can be propagated by .

a) Gene manipulation	✓b) Cloning	c) Genetic engineering	d) Tissue culture technique
----------------------	-------------	------------------------	-----------------------------

1018) \_\_\_\_\_ are regarded as delicacy .

✓a) Oysters	b) Mussels	c) Calms	d) None of these
-------------	------------	----------	------------------

1019) In spiral cleavage the fate of blastomere is \_\_\_\_\_ .

a) Not determino	b) Pre determine	✓c) Foretold	d) None of these
------------------	------------------	--------------	------------------

1020) Some spirochetes occasionally reach in length .

a) 200 $\mu\text{m}$	b) 300 $\mu\text{m}$	c) 400 $\mu\text{m}$	✓d) 500 $\mu\text{m}$
----------------------	----------------------	----------------------	-----------------------

1021) Vacuoles serve to expand the plant cell without diluting its \_\_\_\_\_.

a) Cell wall	b) Cell membrane	✓c) Cytoplasm	d) Both a & b
--------------	------------------	---------------	---------------

1022) The animals without a body cavity are called .

a) Eumetayoa	b) Pseudocoelomata	c) Coelomata	✓d) Acoelomata
--------------	--------------------	--------------	----------------

1023) A group of living organisms of the same species located in the same place at the same time is.

a) Biosphere	b) Biome	c) Community	✓d) Population
--------------	----------	--------------	----------------

1024) The example of prototheria is .

a) Kangroo	b) Whale	c) Rat	✓d) Duck bill platypus
------------	----------	--------	------------------------

1025) \_\_\_\_\_ is incorrect about guard cells.

a) Have chloroplasts	b) Bean Shaped	c) Surrounding Stoma	✓d) Connected to surrounding cells by plasmodesmata
----------------------	----------------	----------------------	---

1026) An ascus is to ascomycetes as is a \_\_\_\_\_ to basidimoycetes .

a) Basidiospore	b) Basidiocarp	✓c) Basidium	d) Haustorium
-----------------	----------------	--------------	---------------

1027) Which of the following kinds of atoms do not occur in carbohydrates ?

a) Carbon	b) Hydrogen	c) Nitrogen	✓d) Oxygen
-----------	-------------	-------------	------------

1028) According to pressure flow theory , which of the following serves as sink .

a) Leaves	b) Stem	✓c) Roots	d) None of these
-----------	---------	-----------	------------------

1029) A third Kingdom protista was proposed to accommodate Euglena like organisms and bacteria , in 1866 by .



a) E-Chatton	✓b) Ernst Hackel	c) Linnaeus Carlous	d) Aristotle
--------------	------------------	---------------------	--------------

1030) Fungi are very important as decomposers and \_\_\_\_\_ .

✓a) Symbionts	b) Composers	c) Producer	d) Consumers
---------------	--------------	-------------	--------------

1031) Conjugated histone protein are.

✓a) Structural and Regulatory	b) Regulatory only	c) Structural Only	d) Transport proteins
-------------------------------	--------------------	--------------------	-----------------------

1032) In amoeba digestion is :

✓a) Intracellular	b) Extracellular	c) Both intracellular	d) No digestion and extracellular
-------------------	------------------	-----------------------	-----------------------------------

1033) Hepatic and pancreatic secretions in man are stimulated by .

a) Gastrin	✓b) Secretin	c) ADH	d) Adrenaline
------------	--------------	--------	---------------

1034) The partly digestion food in cockroach is temporarily stored in :

a) Gizzard	b) Stomach	c) Crop	✓d) Rectum
------------	------------	---------	------------

1035) Blockage of blood vessel in the heart is called .

a) Heart attack	b) Myocardial infraction	✓c) Both a & b	d) None of these
-----------------	--------------------------	----------------	------------------

1036) The plasmodial slime mold that is a model organism is .

✓a) Physarum polycephalum	b) Ustilago tritici	c) Phytophthora infestans	d) Frequilaria
---------------------------	---------------------	---------------------------	----------------

1037) Cell wall of gram positive bacteria are stained

a) Pink	b) Red	c) Green	✓d) Purple
---------	--------	----------	------------

1038) The lysosomes which eat parts of its own cell are known as .

✓a) Autophagosomes	b) Secondary Lysosomes	c) Primary Lysosome	d) Phagocytic Lysosome
--------------------	------------------------	---------------------	------------------------

1039) The closest relatives of fungi are probably .

a) Animals	✓b) Slime molds	c) Brown algae	d) Vascular plants
------------	-----------------	----------------	--------------------

1040) Nonocot have \_\_\_\_\_ veins .

✓a) Parallel	b) Net	c) Both a & b	d) None of these
--------------	--------	---------------	------------------

1041) Which of the following is present in both gram - positive and gram - negative cell walls ?

a) An outer membrane	b) Techoic	✓c) Peptidoglycan	d) Lipopolysaccharides
----------------------	------------	-------------------	------------------------

1042) Plastids are present only in .

a) Bacteria	b) Animal cell	c) Virus	✓d) Plant cell
-------------	----------------	----------	----------------

1043) The citric cycle.

a) Produces no ATP	✓b) Takes place in the mitochondrion	c) Reduces two molecules of NAD for every glucose molecule processed	d) Is the same thing as fermentation
--------------------	--------------------------------------	--	--------------------------------------



1044) The nuclear pores allow exchange of materials between the nucleus and the .

a) Protoplasm	b) Nucleoplasm	✓c) Cytoplasm	d) Cytosol
---------------	----------------	---------------	------------

1045) The known species of plants are over .

a) 1.5 million	b) 1 million	✓c) 0.5 million	d) 17.6 million
----------------	--------------	-----------------	-----------------

1046) The carbohydrate digesting enzyme in pancreatic juice is .

✓a) Lipase	b) Amylase	c) Erypsin	d) Trypsin
------------	------------	------------	------------

1047) How much air lungs can hold when they are fully inflated .

✓a) 5 litres	b) 4 litres	c) 4.5 litres	d) 3.5 litres
--------------	-------------	---------------	---------------

1048) Golgi apparatus is concerned with cell .

a) Division	b) Lipids	✓c) Secretion	d) Storage
-------------	-----------	---------------	------------

1049) Orders include related

a) Species	✓b) Genera	c) Classes	d) Family
------------	------------	------------	-----------

1050) Classification of fungi into four main groups is based primarily on .

a) The type of their sexual reproductive structures	b) Methods of reproduction	c) Modes of nutrition	✓d) Both a & b
---	----------------------------	-----------------------	----------------

1051) Scientific name of planaria .

a) Taenia solium	b) Fasciola hepatica	c) Schistosoma	✓d) Dugesia
------------------	----------------------	----------------	-------------

1052) The \_\_\_\_\_ splits quickly and ionizes to produce hydrogen ions and bicarbonate ions .

a) Hydrochloric acid	b) Carbonylic acid	✓c) Carbonic acid	d) None of these
----------------------	--------------------	-------------------	------------------

1053) Bacteriophages occur in two structural forms having cubical or .

a) Polyhedral symmetry	b) Spherical symmetry	c) Asymmetry	✓d) Helical symmetry
------------------------	-----------------------	--------------	----------------------

1054) Antibiotics are synthesized and secreted by certain bacteria , actinomycetes and .

a) Algae	✓b) Fungi	c) Lichen	d) Virus
----------	-----------	-----------	----------

1055) Gall stones are produced due to .

a) Milk	b) Protein	✓c) Cholesterol	d) Glucose
---------	------------	-----------------	------------

1056) Van Neil hypothesized that source of O<sub>2</sub> during photosynthesis in plants is .

✓a) Water	b) Carbon dioxide	c) NADP	d) Chlorophyll
-----------	-------------------	---------	----------------

1057) The heat that causes oxidation of chemical constituents of microbes and kills them .

a) Moist heat	✓b) Dry heat	c) Intense heat	d) Mild heat
---------------	--------------	-----------------	--------------

1058) Apoplast pathway becomes discontinuous in endodermis due to .

a) Pericycle	✓b) Casparian strip	c) Cortex	d) Xylem
--------------	---------------------	-----------	----------

1059) Dormant , thick-walled , desiccation resistant forms present inside bacteria are .



✓a) Cysts	b) Exospores	c) Endospores	d) Mesosome
-----------	--------------	---------------	-------------

1060) In abdomen fat is stored in .

✓a) Adipose tissue	b) Endodermis tissue	c) Diaphragm	d) None of these
--------------------	----------------------	--------------	------------------

1061) The attachment of two sub fibrous protein is controlled by presence of

a) $\text{Ca}^{2+}$	✓b) $\text{Mg}^{+2}$	c) $\text{K}^{+}$	d) $\text{Fe}^{2+}$
---------------------	----------------------	-------------------	---------------------

1062) When the chyme is neutralized by sodium bicarbonate in the small intestine , it gets converted into .

✓a) Chyle	b) Gastric juice	c) Duodenal juice	d) Pancreatic juice
-----------	------------------	-------------------	---------------------

1063) Nucleus contains soluble sap called .

a) Protoplasm	b) Cytoplasm	✓c) Nucleoplasm	d) Nuclear sap
---------------	--------------	-----------------	----------------

1064) The cells which transmit impulses are.

✓a) Nerve cells	b) Kidney cells	c) Blood cells	d) Bone cells
-----------------	-----------------	----------------	---------------

1065) Excretory system in arthropods is composed of .

✓a) Malpighian tubules	b) Flame cells	c) Nephridia	d) Nephrons
------------------------	----------------	--------------	-------------

1066) Cell membrane is chemically composed of proteins .

a) 10 - 20 %	b) 20 - 30 %	c) 40 - 50 %	✓d) 60 - 80 %
--------------	--------------	--------------	---------------

1067) Enzymes involved in respiration of polypeptide chain and co factor is known as

✓a) Holoenzyme	b) Co enzyme	c) Prosthetic group	d) Apo enzyme
----------------	--------------	---------------------	---------------

1068) Which is an aerobic bacterium ?

a) E.coli	b) Spirochete	c) Campylobacter	✓d) Pseudomonas
-----------	---------------	------------------	-----------------

1069) Mushrooms , rusts , smuts , puff balls , bracket fungi are the examples of .

a) Zygomycota	b) Ascomycota	✓c) Basidiomycota	d) Deuteromycota
---------------	---------------	-------------------	------------------

1070) The catalytic activity of an enzyme is restricted to its small portion called .

✓a) Active site	b) Allosteric site	c) Binding site	d) Catalytic site
-----------------	--------------------	-----------------	-------------------

1071) In this group animals with \_\_\_\_\_ symmetry have been included .

✓a) Radial	b) Bilateral	c) Both a & b	d) None of these
------------	--------------	---------------	------------------

1072) The smallest known viruses contain RNA in spherical capsid are the .

✓a) Pox virus	b) Influenza	c) Herpes virus	d) Polio virus
---------------	--------------	-----------------	----------------

1073) A compound formed by the combination of a nitrogenous base and a pentose sugar is called .

a) Sanger	✓b) Miescher	c) Chetton	d) Linnaeus
-----------	--------------	------------	-------------

1074) Pili are made up of special protein called .

✓a) Pillin	b) Flagellin	c) Tubulin	d) Myosin
------------	--------------	------------	-----------

1075) An isolated virus is not considered living , since it .



a) Separates into two inert parts	b) Rapidly loses its genome chemically inert	c) Is coated with an air tight shield	✓d) Cannot metabolize
-----------------------------------	--	---------------------------------------	-----------------------

1076) In grade radiate the animal is divide into two equal halves and are \_\_\_\_\_ of each other .

✓a) Mirror image	b) Opposite	c) Right angle	d) None of these
------------------	-------------	----------------	------------------

1077) The largest brown algae are called .

a) Diatoms	✓b) Kelps	c) Dinoflagellates	d) Gelidium
------------	-----------	--------------------	-------------

1078) When division occurred in random planes it will produce a \_\_\_\_\_ arrangement .

✓a) Staphylococcus	b) Diplococcus	c) Streptococcus	d) Bacillococcus
--------------------	----------------	------------------	------------------

1079) An inhibitor is a chemical \_\_\_\_\_ .

a) Enzyme	b) Protein	✓c) Substance	d) None of these
-----------	------------	---------------	------------------

1080) Which one of the following is not related to cloning ?

✓a) Replacement of the nucleus of zygote , by another nucleus of the same organism	b) Separation of cells of embryo to form more embryos	c) Removal of piece of DNA or gene from the cell , and incorporating another gene or piece of DNA in its place	d) The individuals resulting have similar genetic makeup
--	---	--	--

1081) In mollusca the foot is used for

a) Capturing prey	✓b) Locomotion	c) Both A & B	d) None of these
-------------------	----------------	---------------	------------------

1082) In the lysogenic cycle , the DNA of a bacteriophage .

✓a) Joins the bacterial chromosome	b) Attaches to the inner surface of the host membrane	c) Is immediately degraded when it enters the host	d) Goes directly to the host's ribosome for translation
------------------------------------	---	--	---

1083) DNA aggregates as an irregular shaped dense area called .

✓a) Nucleoid	b) DNA body	c) Chromatid	d) Plasmid
--------------	-------------	--------------	------------

1084) Pyruvic acid is produced as a result of .

a) Respiratory chain	✓b) Glycolysis	c) Phosphorylation	d) Krebs cycle
----------------------	----------------	--------------------	----------------

1085) One  $\mu\text{m}$  is 0.000,001 meter or \_\_\_\_\_ of a metre .

a) $1 \times 10^6$	b) $1 \times 10^7$	✓c) $1 \times 10^{-6}$	d) $1 \times 10^{-7}$
--------------------	--------------------	------------------------	-----------------------

1086) In the scientific name of onion , Allium cepa , the Allium belongs to its .

✓a) Genus	b) Group	c) Species	d) Family
-----------	----------	------------	-----------

1087) How much water is present in cytoplasm ?

a) 40 %	b) 60 %	c) 80 %	✓d) 90 %
---------	---------	---------	----------

1088) Slime provides greater pathogenicity to bacteria and protects them against .

a) Pinocytosis	✓b) Phagocytosis	c) Invasion	d) Exocytosis
----------------	------------------	-------------	---------------



1089) Caecum is a blind sac between .

a) Jejunum and ileum	b) Colon and rectum	c) Jejunum and colon	✓d) Ileum and colon
----------------------	---------------------	----------------------	---------------------

1090) The asexual reproduction in sponges occurs by .

✓a) Budding	b) Fragmentation	c) Spores	d) Conidia
-------------	------------------	-----------	------------

1091) The asexual reproduction in sponges is by

✓a) Budding	b) Fertilization	c) Conjugation	d) Conidiospores
-------------	------------------	----------------	------------------

1092) Scientists who study fungi are called .

a) Phycologists	✓b) Mycologists	c) Physiologists	d) Ethologists
-----------------	-----------------	------------------	----------------

1093) Passive immunity is developed by injecting .

a) Vaccine	b) Serum	✓c) Antiserum	d) Antibiotic
------------	----------	---------------	---------------

1094) Which one of the following is a correct sequence in biological method ?

a) Observations - Hypothesis - Law	✓b) Observations - Hypothesis - Deduction - Testing of deduction	c) Hypothesis - Observations - Deduction - Testing of deduction	d) Law - Theory - Deduction - Observation
------------------------------------	--	---	---

1095) By adopting hygienic measures, with routine vaccination and screening of blood / organ / tissue of the donor we can control .

✓a) Hepatitis	b) AIDS	c) Measles	d) Herpes simplex
---------------	---------	------------	-------------------

1096) The edible algae is .

✓a) Mushroom	b) Kelps	c) Dinoflagellates	d) Diatoms
--------------	----------	--------------------	------------

1097) An enzyme with its co enzyme removed is designated as

a) Holoenzyme	✓b) Apoenzyme	c) Co enzyme	d) Apo enzyme
---------------	---------------	--------------	---------------

1098) Viruses lack metabolic machinery for the synthesis of their own .

a) RNA & protein	b) Fatty acid & protein	✓c) Nucleic acid & protein	d) Amino acid & protein
------------------	-------------------------	----------------------------	-------------------------

1099) Egg cell has about \_\_\_\_\_ pores per nucleus .

a) 25,000	b) 35,000	✓c) 30,000	d) 3,000
-----------	-----------	------------	----------

1100) Loose smut of wheat is caused by .

✓a) Ustilago	b) Penicillium	c) Aspergillus	d) Alternaria
--------------	----------------	----------------	---------------

1101) Lamprey and hag fishes are examples of class .

a) Chondrichthyes	b) Osteichthyes	✓c) Cyclostomata	d) Dipnoi
-------------------	-----------------	------------------	-----------

1102) The nucleic acid and capsid is collectively called .

a) Nucleoid	b) Capsid	c) Chromatin body	✓d) Nucleocapsid
-------------	-----------	-------------------	------------------

1103) During aerobic respiration glucose is oxidized to :



a) Water	b) Energy	c) CO <sub>2</sub>	✓d) All of these
----------	-----------	--------------------	------------------

1104) An egg containing female gamelophyte called an \_\_\_\_\_.

✓a) Embryosac	b) Sporangium	c) Megaspore	d) None of these
---------------	---------------	--------------	------------------

1105) Which one is not animal fungal disease ?

a) Ringworm	b) Athletes' foot	✓c) Powdery mildew	d) Histoplasmosis
-------------	-------------------	--------------------	-------------------

1106) The babies with Cyanosis is called .

a) Black babies	b) Abnormal babies	✓c) Blue babies	d) None of these
-----------------	--------------------	-----------------	------------------

1107) The ions involved in the opening and closing of stomata are.

a) Sodium	✓b) Potassium	c) Calcium	d) Magnesium
-----------	---------------	------------	--------------

1108) Fresh saliva has pH

a) 4	✓b) 6	c) 8	d) 7.3
------	-------	------	--------

1109) Which statement about ATP is not true?

a) It is used as energy currency by all cells	✓b) It is formed only under aerobic conditions	c) Some ATP is used to drive the synthesis of storage compounds	d) It provides the energy for many different biochemical reactions
---	--	---	--

1110) Nephridia are excretory structures of .

a) Sponges	✓b) Annelids	c) Arthropods	d) None of these
------------	--------------	---------------	------------------

1111) The muscles of stomach is of which type.

✓a) Skeletal	b) Smooth	c) Cardiac	d) All of these
--------------	-----------	------------	-----------------

1112) Which type of cell would probably be most appropriate to study lysosomes ?

✓a) Phagocytic white blood cells	b) Mesophyll cell of leaf	c) Nerve cell	d) Muscle cell
----------------------------------	---------------------------	---------------	----------------

1113) If non-protein part is loosely attached to protein , it is known as .

a) Cofactor	✓b) Coenzyme	c) Holoenzyme	d) Active site
-------------	--------------	---------------	----------------

1114) Which statement is not true about Deuteromycetes ?

a) They are called imperfect fungi	b) Their asexual spores are called conidia	c) It is a heterogenous polyphyletic group	✓d) They have both sexual and asexual reproduction
------------------------------------	--	--	--

1115) The polyp is reduced and medusa is dominant .

a) Sea Anemon	b) Hydra	✓c) Jelly fish	d) Obelia
---------------	----------	----------------	-----------

1116) Eukaryotes include animals , plants , fungi and .

✓a) Protista	b) Monera	c) Bacteria	d) Viruses
--------------	-----------	-------------	------------

1117) One of these is an early reptile .

a) Platypus	✓b) Varanope	c) Snake	d) Archaeopterye
-------------	--------------	----------	------------------



1118) An enzyme is a three dimensional \_\_\_\_\_ protein .

a) Fibrous	b) Elastic	✓c) Globular	d) Insoluble
------------	------------	--------------	--------------

1119) Chloroplasts has a double membranous envelope that encloses dense fluid filled region known as .

a) Matrix	b) Stroma	✓c) Thylakiod	d) Granum
-----------	-----------	---------------	-----------

1120) The smallest known viruses are .

a) Bacteriophage	b) Pseudomonas	✓c) Polio	d) Coli
------------------	----------------	-----------	---------

1121) Phyco erythrin is found is .

a) Green algae	✓b) Red algae	c) Brown algae	d) Blue green algae
----------------	---------------	----------------	---------------------

1122) Respiratory activity which occurs in plants during day time is called .

a) Respiration	b) Photorespiration	✓c) Transpiration	d) Cutinious respiration
----------------	---------------------	-------------------	--------------------------

1123) In the five kingdom system of classification developed by Robert Whittaker , members of the kingdom Plantae are autotrophic , eukaryotic , and

✓a) Multicellular	b) Either unicellular or multicellular	c) Motile	d) Have sexual reproduction
-------------------	--	-----------	-----------------------------

1124) During the dark reactions of photosynthesis the main process which occurs is .

a) Release of oxygen	b) Energy absorption	c) Formation of ATP	✓d) Adding of hydrogen to carbon dioxide
----------------------	----------------------	---------------------	--

1125) The open circulatory system is present in .

a) Periplaneta	b) Pheretima	c) Runa tigrina	✓d) Amphioxus
----------------	--------------	-----------------	---------------

1126) A non - viscous colloidal solution is called .

✓a) Sol	b) Gel	c) Cytosol	d) Stroma
---------	--------	------------	-----------

1127) Most eleborate and efficient respiratory system is present in .

a) Man	b) Fish	✓c) Birds	d) Reptiles
--------	---------	-----------	-------------

1128) pH of fresh saliva of human is about .

a) 6	b) 7	✓c) 8	d) 9
------	------	-------	------

1129) Bacteria prepare themselves for division is .

a) Log phase	✓b) Lag phase	c) Stationary	d) Decline
--------------	---------------	---------------	------------

1130) \_\_\_\_\_ make up 235,000 of the 360,000 known species of plants .

✓a) Angiosperms	b) Gymnosperms	c) Ferns	d) Bryophytes
-----------------	----------------	----------	---------------

1131) Which one has played infamous roles in human history as they were the cause of Irish potato famine of the 19<sup>th</sup> century?

a) Entomoeba histolytica	b) Physarum polycephalum	c) Trypanosoma gambiense	✓d) Phytophthora infestans
--------------------------	--------------------------	--------------------------	----------------------------



1132) If non protein is loosely attached to the protein part it is known as

<input checked="" type="checkbox"/> a) Cofactor	b) Apoenzyme	c) Coenzyme	d) None of these
---	--------------	-------------	------------------

1133) Hepatic portal vein carries blood from .

a) Liver	<input checked="" type="checkbox"/> b) Alimentary canal	c) Kidneys	d) Lungs
----------	---	------------	----------

1134) Asthma results in the release of inflammatory chemicals such as \_\_\_\_\_ into the circulatory system .

a) Histone	b) Trypsin	<input checked="" type="checkbox"/> c) Histamine	d) None of these
------------	------------	--	------------------

1135) The maximum amount of oxygen which normal human blood absorbs and carries at the sea - level is about \_\_\_\_\_ of blood .

<input checked="" type="checkbox"/> a) 200 ml / 100 ml	b) 40 ml / 100 ml	c) 100 ml / 20 ml	d) None of these
--	-------------------	-------------------	------------------

1136) Normal pH of human blood is .

a) 4.4	b) 5.4	c) 6.4	<input checked="" type="checkbox"/> d) 7.4
--------	--------	--------	--

1137) Digestion in hydra and planaria takes place within its.

a) Coelom	<input checked="" type="checkbox"/> b) Gastro vascular cavity	c) Alimentary canal	d) Transport molecule
-----------	---	---------------------	-----------------------

1138) The presence of free oxygen made possible the evolution of .

a) Man	b) Dark reactions	c) Photosynthesis	<input checked="" type="checkbox"/> d) Respiration
--------	-------------------	-------------------	--

1139) The photorespiration is a process in which ribulose biphosphate carboxylase / oxygenase ( rubisco ) fixes \_\_\_\_\_ instead of carbon dioxide .

a) Hydrochloric acid	b) Methane	<input checked="" type="checkbox"/> c) Oxygen	d) None of these
----------------------	------------	---	------------------

1140) Imperfect fungi show special kind of genetic recombination , called .

a) Sexual reproduction	<input checked="" type="checkbox"/> b) Parasexulate	c) Asesual reproduction	d) None of these
------------------------	---	-------------------------	------------------

1141) Optimum pH for sucrase is.

a) 3.50	<input checked="" type="checkbox"/> b) 4.50	c) 5.50	d) 6.50
---------	---	---------	---------

1142) Disinfectants inhibit the growth of vegetative cell and are used on .

a) Living materials	b) Living and non living materials	<input checked="" type="checkbox"/> c) Non living materials	d) Living tissues
---------------------	------------------------------------	---	-------------------

1143) In double fertilization \_\_\_\_\_ formation occur .

<input checked="" type="checkbox"/> a) Zygote	b) Monocot	c) Dicot	d) Fruit
---	------------	----------	----------

1144) Magnesium is an important nutrient ion in green plant as it is an essential component of.

a) Cell sap	<input checked="" type="checkbox"/> b) Chlorophyll	c) Protein	d) Glucose
-------------	--	------------	------------

1145) Perhaps the most distinctive feature of prokaryotic cell is its .

a) Cell membrane	b) Hereditary material	c) Ribosomes	<input checked="" type="checkbox"/> d) Cell wall
------------------	------------------------	--------------	--



1146) Plastocyanin protein contains .

a) Iron	✓b) Copper	c) Magnesium	d) Potassium
---------	------------	--------------	--------------

1147) Which one is present in all bacteria?

a) Cell wall	b) Meosome	✓c) Ribosomes	d) Plasmid
--------------	------------	---------------	------------

1148) Guard cells become turgid and stoma or pore \_\_\_\_\_.

a) Close	✓b) Open	c) Both a & b	d) None of these
----------	----------	---------------	------------------

1149) During the dark reactions of photosynthesis , the main process which occurs is .

a) Release of oxygen	b) Energy absorption by chlorophyll	✓c) Adding of hydrogen to carbon dioxide	d) Formation of ATP
----------------------	-------------------------------------	--	---------------------

1150) The detachable co-factor of an enzyme is known as .

a) Activator	b) Prosthetic group	✓c) Co-enzyme	d) Apo-enzyme
--------------	---------------------	---------------	---------------

1151) Before pyruvate enters the citric acid cycle, it is decarboxylated, oxidized and combined with coenzyme A , forming acetyl CoA , carbon dioxide and one molecule of.

✓a) NADH	b) ATP	c) FADH <sub>2</sub>	d) ADP
----------	--------	----------------------	--------

1152) One cubic millimeter of human male blood contain RBC .

a) 4 - 4.5 millions	✓b) 5 - 5.5 millions	c) 6 - 6.5 millions	d) 7 - 7.5 millions
---------------------	----------------------	---------------------	---------------------

1153) Rhizopus belongs to the phylum .

a) Ascomycota	✓b) Basidiomycota	c) Zygomycota	d) Aspergillus
---------------	-------------------	---------------	----------------

1154) Mitochondria also contain .

a) DNA and RNA	b) RNA and ribosomes	c) DNA and protein	✓d) DNA and ribosomes
----------------	----------------------	--------------------	-----------------------

1155) Oxygen released during photosynthesis comes from .

✓a) Water	b) CO <sub>2</sub>	c) Glucose	d) Chlorophyll
-----------	--------------------	------------	----------------

1156) Which one is present in all bacteria ?

✓a) Cell membrane	b) Mesosome	c) Ribosomes	d) Plasmid
-------------------	-------------	--------------	------------

1157) At rest we inhale and exhale \_\_\_\_\_ per minute .

a) 15 - 25 times	✓b) 15 - 20 times	c) 10 - 15 times	d) 11 - 20 times
------------------	-------------------	------------------	------------------

1158) With the expansion of the lungs vacuum is created inside the lungs in which the air rushes from the outside is called \_\_\_\_\_.

a) Expiration	b) Digestion	✓c) Inspiration	d) None of these
---------------	--------------	-----------------	------------------

1159) Which phylum of algae do not have forms with flagellated motile cells in at least one stage of their life cycle .

a) Euglenophyta	b) Chlorophyta	✓c) Rhodophyta	d) Phaeophyta
-----------------	----------------	----------------	---------------



1160) Imbibition is a \_\_\_\_\_ process and when water is lost the original volume of cell wall and of protoplasm is restored .

<input checked="" type="checkbox"/> a) Reversible	b) Irreversible	c) Both a & b	d) None of these
---	-----------------	---------------	------------------

1161) Spores are resistant to adverse physical environment condition such as .

a) High temperature	b) Desiccation	c) Chemical agents	<input checked="" type="checkbox"/> d) All of these
---------------------	----------------	--------------------	---

1162) The first part of small intestine is called .

a) Rectum	b) Ileum	c) Jejunum	<input checked="" type="checkbox"/> d) Duodenum
-----------	----------	------------	---

1163) Which affects the functional specificity of enzymes ?

<input checked="" type="checkbox"/> a) Structure	b) Specific chemistry	c) Configuration	d) Both b & c
--	-----------------------	------------------	---------------

1164) Foot and mouth disease is caused by .

a) Algae	b) Bacteria	<input checked="" type="checkbox"/> c) Fungi	d) Virus
----------	-------------	--	----------

1165) The evaporation of water from the aerial parts of the plant especially through stomata of leaves is a process called \_\_\_\_\_ .

a) Expiration	b) Photosynthesis	<input checked="" type="checkbox"/> c) Transpiration	d) None of these
---------------	-------------------	--	------------------

1166) In the embryonic life the red blood cells are formed in .

a) Red bone marrow	b) In bone marrow of sternum and ribs	c) Liver and spleen	<input checked="" type="checkbox"/> d) Bone marrow of vertebrae
--------------------	---------------------------------------	---------------------	---

1167) Which is not an enzyme of pancreatic juice ?

a) Trypsin	<input checked="" type="checkbox"/> b) Pepsin	c) Lipase	d) Amylase
------------	---	-----------	------------

1168) Excess gastric secretion is an important factor of .

a) Obesity	b) Piles	c) Food poisoning	<input checked="" type="checkbox"/> d) Peptic ulcer
------------	----------	-------------------	---

1169) In the peroxisomes the glycolate is converted into \_\_\_\_\_ .

a) Serine	b) Rubisco	<input checked="" type="checkbox"/> c) Glycine	d) None of these
-----------	------------	--	------------------

1170) All " flatworms " belong the phylum .

a) Annelida	b) Earthropoda	<input checked="" type="checkbox"/> c) Platyhelminthes	d) Nematoda
-------------	----------------	--	-------------

1171) Capillaries join to form \_\_\_\_\_ which join to form veins .

a) Arteries	<input checked="" type="checkbox"/> b) Venules	c) Valves	d) None of these
-------------	--	-----------	------------------

1172) An enzyme reacts only with its specific .

a) Surface	b) Product	<input checked="" type="checkbox"/> c) Substrate	d) Inhibitor
------------	------------	--	--------------

1173) When division occurred in random planes it will produce a \_\_\_\_\_ arrangement .

<input checked="" type="checkbox"/> a) Staphylococcus	b) Diplococcus	c) Streptococcus	d) Bacillococcus
---	----------------	------------------	------------------