11th Class Biology Objective Paper Group 1 Multan Board 2024 pakcity.org 2024 (1st-A) Paper Code INTERMEDIATE PART-I (11th Class) Roll No: Number: 2463 PAPER-I GROUP-I BIOLOGY **MAXIMUM MARKS: 17 OBJECTIVE TIME ALLOWED: 20 Minutes** You have four choices for each objective type question as A, B, C and D. The choice which you think O.No.1 is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. B QUESTIONS **S.#** Ovule Ovary In spermatophytes seed is formed from: Anther Embryo sac 1 Brachiolaria **Bipinaria** Tadpole Trochophore Larva produced during the life cycle 2 of annelids is named as: Walking Perching (The hind limb of birds is modified for: **Flying** Running 3 Cytochrome -Cytochrome -Cytochrome -Cytochrome -During respiratory chain co-enzyme Q 4 is oxidized by: a_3 Acetyl - CoA Fumarate Malate Oxaloacetate Acetic acid on entering mitochondria 5 combines with co-enzyme - A to form: Botulism Bulimia Obesity Anorexia The term employed to the loss of 6 nervosa nervosa appetite due to the fear of becoming obese is: Emphysema Tuberculosis Lung cancer Breakdown of alveoli of lung is termed Asthma 7 Basophils Neutrophils Eosinophils Histamine that participate in allergic Monocytes 8 reactions is produced by: Enzyme Hormones Antibodies Antigen Antiserum is a serum containing: 9 Wasp Honey bee Mosquito Housefly An aphid that attacks walnut tree is 10 being controlled biologically by: Starch Glycogen Amino acid Cellulose Cotton is the pure form of: 11 Activator Co-factor An enzyme with its co-enzyme removed Apoenzyme Holoenzyme 12 is designated as: Autophagy Phagocytosis Exocytosis The process of taking in solid material Pinocytosis 13 by cell membrane is: Virus Protozoa Fungi Bacteria Small pox is caused by: 14 Cyst Plasmid Nucleoid Which structure of bacteria helps in Mesosome 15 DNA replication? Sodium Silica Potassium Tests of actinopods are made up of: Calcium 16 Parasites Heterotrophs Saprotrophs The fungi which obtain food from dead Autotrophs 17

25(Obj)(☆☆)-2024(1st-A)-18000 (MULTAN)

organic matter are:

		2024 (1 st -A)		
	INTERMEDI	ATE PART-I (11 th Class)	Roll No:	
	OGY PAPER-I GROU	P-I	THE ASSESSMENT OF THE PARTY OF	DVC. 69
		SUBJECTIVE	MAXIMUM MA	nestion naner.
OTE	ALLOWED: 2.40 Hours : Write same question number an	d its parts number on answer be	ook, as given in the q	uestion paper.
,		SECTION-I		$8 \times 2 = 16$
2. At	tempt any eight parts.			
(i)	How fats-differ from oils?	of north of notive two sites in e	nzvme.	
(ii)	Define an enzyme. Write names	of parts of active two sites is e		
(iii)	Write any two characteristics of e What is Induce Fit Model? Who	proposed it?		
(iv)	1 11: 1 1 6	altetive porecite in fillion		
(v)	In what way composition of cell	wall is advantageous to fungi w	ith reference to nuti	rition?
(vi)	How would you find contrast bet	ween ostia and osculum?		
(vii) (viii)	White the functions of mantle and	l radula		
(ix)	Echinoderms are comparatively s	simple organisms but are placed	at the top of	
(1X)	invertebrate phyla very close to c	hordates. Give any two reason	S	
(x)	What is Larvnx? Give its function	on.		
(xi)	Define accessory nigments Wha	of is their role?		
(xii)	How photophosphorylation differ	rs from oxidative phosphorylati	on?	$8 \times 2 = 16$
	tempt any eight parts.			0 X 4 - 10
(i)	What is meant by Phyletic lineag	e?		
(ii)	How would you differentiate ded	uctive and inductive reasoning	(6)	
(iii)	Give the role of endoplasmic reti	culum.	100	
(iv)	What are cisternae?		9)	
(v)	Write important features of diato	ms.		
(vi)	Give ecological importance of di	nonagenates.		
(vii)	What are symptoms of malaria? Differentiate foraminiferans and	actinopode		
(viii)	What is the affect of pH on capacitation	city of harmortohin to combine	with oxygen?	
(ix)	Give causes and symptoms of tul	perculosis		
(xi)	Write two functions of Monocyte	See A See A		
(xii)	How would you define source an	d sink?		
	tempt any six parts.			$6 \times 2 = 12$
(i)	What is prophage? How it differ	s from virion?		
(ii)	Differentiate slime and endospor	e.		
(iii)	Write distinguishing characters of	f bryophytes.	1	
(iv)	Write the structure of ovule of ar	giosperms.		
(v)	Write two differences between m	onocots and dicots.		
(vi)	What is pollen tube? Write its fu	nction. Fema		
(vii)	What are detritivores? Give an			
(viii)	Define peristalsis and antiperista	sis. pakcity.org		
(ix)	What is chyme? Give its effect of	on duodenum.		
		SECTION-II		$3 \times 8 = 24$
NOT	E: Attempt any three questions	ation and concernation of envir	onment?	4
5.(a)	How biology is helpful for prote In what way respiration in birds	is the most efficient and elabor	ate?	4
(b)				1+3=4
6.(a)	Draw the structure of a Mononuc	cleotide. Differentiate DNA an	d KNA.	1+3=4 1+3=4
(b)	What is the importance of unicel	lular fungi? Discuss ecologica	impact of fungi.	
7.(a)	Write any four differences between	en Prokaryotes and Eukaryotes	5.	1+1+1+1=4
(b)	Discuss food selection, grinding,	lubrication and digestion func-	tions	1+1+1+1=4
(-)	of oral cavity of man.			
8 (0)	What is Hepatitis? Describe its	different types.		1+3=4
8.(a) (b)	Write down any eight functions	of blood.		4
				4
9.(a)	Classify bacteria with respect to	nagena.		4
(b)	Sketch the phases of glycolysis.			•

	6	
	4	alkaitu ara
ĺ	CE	Dakcity.org
	A.	

	11th Class Biology Objective Paper Group 2 Multan Board 2024								
	r Code ber: 2464		2024 (1 st -A) DIATE PART-I (11 th Class)		Roll No:				
BIO	LOGY PAPER	-I GROUP-II		•					
TIM	E ALLOWED: 20	Minutes	OBJ	ECTIVE N	MAXIMUM MA	RKS: 17			
Q.No.1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.									
S.#	QUEST	TIONS	A	В	C	D			
1	The process in which becomes incorporate bacterial chromoson	ed into the	Induction	Lysis	Lysogeny	Deduction			
2	Rapid phase of growis called:	wth of bacteria	Log phase	Lag phase	Decline phase	Stationary phase			
3	Parasitic protozoans at some stage in the belong to:		Actinopods	Ciliates	Zooflagellates	Apicomplexans			
4	Asexual reproduction occurs by:	on in yeast	Conjugation	Budding	Fragmentation	Conidia			
5	The class of seedles containing foliar sp	•	Angiospermae	Gymnospermae	Filicmeae	Algae			
6	The largest inverteb	orate animal is:	Anodonta	Oyster	Octopus	Squid 🛑			
7	Which of the given pseudocoelom?	has a	Ascaris	Earth worm	Hydra	Planaria •			
8	Ferredoxin is a prot	ein that contains:	Copper	Iron	Magnesium	Sodium			
9	The NADH molecureducing power for sugar during:		Chemiosmosis	Electron transport chain	Calvin cycle	Glycolysis			
10	Which type of musc in stomach?	cles are found	Skeletal Law Motin	Smooth	Cardiac	Voluntary			
11	Blood is not involve of gases in:	ed in exchange	Fishcity.	org Frog	Man	Cockroach			
12	Guttation occurs in	plants through:	Hydathodes	Stomata	Cuticle	Lenticels			
13	The type of white b		Basophils	Eosinophils	Monocytes	Neutrophils			
14	The reasoning that general to specific i		Deductive •	Inductive	Scientific	Theoretical			
15	Animals mainly obfrom:	tain carbohydrates	Glucose	Glycogen	Sucrose	Starch			
16	Metal ions are relat	ed to:	Co-enzyme	Co-factor	Vitamin	Substrate			
17	Which is not found wall?	in secondary	Chitin	Inorganic salts	Cutin	Silica			

26(Obj)(☆☆)-2024(1st-A)-22000 (MULTAN)
Please visit for more data at: www.pakcity.org Page 15 of

11th Class Biology Subjective Paper Group 2 Multan Board 2024 2024 (1st-A) INTERMEDIATE PART-I (11th Class) Roll No: **GROUP-II** BIOLOGY PAPER-I **MAXIMUM MARKS: 68** SUBJECTIVE TIME ALLOWED: 2.40 Hours NOTE: Write same question number and its parts number on answer book, as given in the question paper. **SECTION-I** $8 \times 2 = 16$ 2. Attempt any eight parts. Give one similarity and one difference between Amylose and Amylopectin. (i) What are enzymes? How they accelerate a metabolic reaction? (ii) Write the effect of temperature on the enzyme action. (iii) How would you differentiate activator and co-enzyme? (iv) How mycorrhizal association increases growth of plants? (v) What are toad stools? Give two examples. (vi) Why annelids and arthropods are considered having same origin? (vii) (viii) How would you differentiate ostia and osculum? Write down the economic importance of Molluscs. (ix)Differentiate the determinate and indeterminate cleavage. (x) Absorption and action spectrum are different. How? (xi) Name the processes, which acts as energy-capturing and energy releasing. (xii) $8 \times 2 = 16$ 3. Attempt any eight parts. How would you recognize a living organism? Define community with an example. (ii) How polysomes are formed? (iii) What role is played by centrioles in cell division? (iv) How protista are different from prokaryotes? (v) How algae differ from the plants in sex organs? (vi) What do you know about kelps? (vii) How slime molds survive during unfavourable conditions? (viii) If photorespiration is inhibited even then plants can grow. Then why does photorespiration exists? (ix) How counter current exchange increases amount of oxygen in birds? (x) How Abscisic acid controls stomatal movement in plants? (xi) (xii) Why transpiration is called a necessary evillo $6 \times 2 = 12$ 4. Attempt any six parts. What do you know about capsid and capsomeres? (i) What are pili? Give their functions. (ii) How "venus fly trap" catches and digest the insects? (iii) Differentiate nutrients and nutrition. (iv) How would you define detritivores? Give one example of detritivore animal. (v) Funeria is an "amphibians of plant." How? (vi) What is phylogenetic system classification? (vii) Give two important features of female cone of pinus. (viii) What are sori? Give their structure. (ix) **SECTION-II** $3 \times 8 = 24$ NOTE: Attempt any three questions. Give the role of Biology in the field of protection and conservation of environment. 2+2=45.(a)3+1=4 Compare the role of haemoglobin and myoglobin in respiration. (b) Why carbon is called the skeleton of life? Justify it. 6.(a)Enlist different modes of nutrition in fungi. Describe fungi as predators. 1+3=4(b) 4 Describe structure and functions of lysosomes. 7.(a) Why is digestion necessary? Describe what happens to a meal containing fats, 4 (b) carbohydrates and protein while it is in stomach of man. 2+2=4Write characteristics and structure of viruses. 8.(a)How ascent of SAP takes place in plants? Explain only Cohesion Tension Theory. (b) Explain the germ theory of disease. Also describe the discovery of bacteria. 2+2=49.(a) 4 Draw outline of glycolysis. No description is required. (b)

Paper Code			2023 (1 st -A) INTERMEDIATE PART-I (11 th Class) Roll No:						
Number: 2461			INTERMEDIA	ATE PART-1 (1	1" Class)	Ro	Roll No:		
BIO	LOGY	PAP	ER-I GROU	UP-I					
TIM	IE ALL	OWED	: 20 Minutes	OBJE	CTIVE	MA	XIMUM MA	RKS: 17	
Q.No			choices for each object at bubble in front of the						
			ng or filling two or m					r pen to mi the	
S.#			STIONS	A	В		C	D	
1	A large	regional c	community	Biomass	Biospher	re	Biome	None of these	
	primaril	y determi	ned by climate is:		100° to				
2	Total nu insulin i		mino acids in	50	51		40	41	
3	between	enzyme a	ture act as a bridge and its substrate?	Co-factor	Bindin	le	Apoenzyme	Inhibitor	
4	The prot	tein prese	nt in microtubule is:	Actin	Myosin	1	Tropomyosin	Tubulin	
5	of hepat	itis:	ource of infection	A	X AB	<u>(</u>		E	
6		nt vector i	in a modern genetic lique is:	3Plasmid	Nuoses	ď	Ribosome	Mesosome	
7			lar data, euglenofds closely related to	Brown algae	Diatom	S	Zooflavellites	Green algae	
8	Cell wa	ll of Fung	i is made up of:	Pectun	Mirein	1	Cellulose	Chitin	
9	A flowe	r is a mod	lif a A	Root	Slimit	X	Leaf	Stem	
10	Closed o		y sis time	Nematoda	Platy	nthes	Annelida	Arthropoda	
11	Nemato of phylu		the citaracteric its M	Annelida	Coelentra	ata	Nematoda	Platyhelminthes	
12	Which o		owi e s re	$C_{20}H_{39}$	$C_{39}H_{20}$	0	$C_{22}H_{40}$	$C_{40}H_{22}$	
13			cle, the carbon is I resulting in the	Fat	Protein	1	Sugar	Enzyme	
	synthesi	s of:					6	ity.org	
14	Amoeba means o		nd obtains food by	Cilia	Pseudopo	odia	Flagella	Tentacles	
15	Breakdown of alveoli of lungs is called:			Asthma	Emphyse	ma	Tuberculosis	Lung caner	
16	Which i		xample of	Basophils	Eosinoph	nils	Lymphocytes	Neutrophils	
17		rolled pro- ells result	duction of white in:	Asthma	Thalasser	mia	Odema	Leucaemia	

25(Obj)(★)-2023(1st-A)-18000 (MULTAN)

	NTERMEDIATE PART-I (11th Class)	2023 (1st-A)	Roll No:	
BIOL	OGY PAPER-I GROUP-I			
TIME	ALLOWED: 2.40 Hours SUBJE	CTIVE	MAXIMUM MARI	
NOTE	Write same question number and its parts number	on answer book,	as given in the question	paper.
	SECTIO	N-I Multan	Board-2023	
2. At	tempt any eight parts.	widitall	Dualu-2023	$8 \times 2 = 16$
(i)	What are Conjugated Molecules? Give examples.			
(ii)	Differentiate between Competitive and Non-compet	titive inhibitors.		
(iii)	What are Holoenzymes?			
(iv)	Define Enzyme and Substrate.			
(v)	What is a Hypha? What is the advantage of having	incomplete septa	?	
(vi)	Differentiate between Ascospores and Ascus.			
(vii)	What is Spongocoel?			
(viii)	Give two important features of Mammals.			
(ix)	How insects are beneficial to man?			
(x)	What is Syrinx?			
(xi)	Differentiate between Grana and Stroma.			
(xii)	What do you know about Photosystems?			
	tempt any eight parts.			$8 \times 2 = 16$
(i)	How did industrialization destroy our environment?	?		
(ii)	How did Biology helped mankind in better food pro	oduction?		
(iii)	Give three functions of SER.			
(iv)	Differentiate between Microtubules and Microfilan	nents.		
(v)	What do you know about Amoebae?			
(vi)	What is Thallus?	20	s)	
(vii)	Write the ecological importance of Dinoflagellates.	9/2 s		
(viii)	What is Chlorella? Give its importance.	. 10		
(ix)	Write the names of two plants belonging to family	Poaceae.		
(x)	Define Seed.	7		
(xi)	What is Symplast pathway?			
(xii)	What are Isobilateral leaves?	*		(- 2 - 12
	ttempt any six parts.	34		$6 \times 2 = 12$
(i)	Describe term Provirus. Give one example.			0.276.30
(ii)	Give structure of virion of HIV.		24	
<u>'</u>		UCATION		
(iii)	Write composition of Saliva.			
(iv)	Discuss Ulcer.	America / Scotors		
(v)	Describe role of Large intestine.			
(vi)	What is Lung cancer?	kcity.org		
(vii)	How does partial pressure of O_2 effect formation and		of oxyhaemoglobin?	
(viii)	Argue that animals having diving reflex have speci	al body features.		
(ix)	Why it is necessary to have respiratory surface?			
	SECTIO	N-II		
NOT	E: Attempt any three questions.			$3 \times 8 = 24$
5.(a)	How Drug treatment/genetharapy is used for disea	se control?		4
(b)	What do you know about Cohesion Tension Theor	y?		4
6.(a)	Describe characteristics of Monosaccharides.	makci	y ora Se	4
(b)	Explain why did fungi separate from plant kingdor	m. W Pakel	ry.org See	4
7.(a)	Describe the nutrition in Bacteria.			4
(b)				4
8.(a)			tion?	4
(b)				4
9.(a)		ria. 		4
(b)	Write a note on digestion in planaria.			4

Dan	P C I								
-	er Code aber: 2464	INTERME	2023 (1 st -A) DIATE PART-I (1	1 th Class)	Roll No:				
BIC	DLOGY PAP	ER-I GR	OUP-II						
TIM	TE ALLOWED	: 20 Minutes	OBJE	CTIVE M	AXIMUM MA	RKS: 17			
Q.N	correct, fill the	at bubble in front o	bjective type question of that question numl more bubbles will re	n as A, B, C and I ber, on bubble sho	O. The choice which eet. Use marker or	you think is			
S.#	QUEST		A	В	C	D			
1	Reindeer moss is	a/an:	Lichens	Algae	Fungi	Bryophyte			
2	When egg and ma angiosperm fuse,		Zygospore	Ascospore	Oosphere	Oospore			
3	The beginning of action in man is:	swallowing	Voluntary	Involuntary	Automatic	Reflex action			
4	Air entering nasal	cavity is:	Filtered	Moistened	Warmed	All of these			
5	Phytol is attached	to:	2 pyrrole rings	3 pyrrole rings	Only one of	4 pyrrole			
		9			pyrrole ring	rings			
6	Which of the follo take part in respira		Coenzyme	Gytochrome	Molecular oxygen	Plastocyanin			
7	Circular muscles a longitudinal musc in:		Blatyneliminines	Flatworm	Roundworm	Cnidarian			
8	Average life span	of RBCs is:	4 months	One year	o years	Whole life			
9	A foreign substand which stimulates antibody is:	firmation of an	B-Cympliocytes	T. Lymbliocytes	Antigen	Serum			
10	Process of sheddi exoskeleton in art called:		Excretion	Ecdysis	Lysis	Splitting			
11	Cloning could not make:	be used to	Multiple copies of desired lorganism	Used to produce genetically identical cattle	Commercial production of valuable animals	In research			
12	All of following he glucose except:	ave chains of	Chitin	Glycogen	Cellulose	Starch			
13	Coenzyme is relate	ed to:	Proteins	Fats	Vitamins	Lipids			
14	Single membrane organelle is:	bound	Chloroplast	Mitochondria	Nucleus	Lysosomes			
15	Which part of viru multiple copies ins	side host cells?	Virus genome	Capsid	Envelop	All of these			
16	Structure involved of alkaline soils ar		Akinetes	Heterocysts	Cysts	Hormogonia			
17	One of the followi protozoans:	ng represents	Dinoflagellates	Diatoms	Apicomplexans	None of these			

26(Obj)(**)-2023(1st-A)-18000 (MULTAN)

Multan Board-2023 INTERMEDIATE PART-I (11th Class) 2023 (1st-A) Roll No: BIOLOGY PAPER-I GROUP-II TIME ALLOWED: 2.40 Hours **SUBJECTIVE MAXIMUM MARKS: 68** NOTE: Write same question number and its parts number on answer book, as given in the question paper. SECTION-I 2. Attempt any eight parts. $8 \times 2 = 16$ Draw the complete structure of ATP. (i) (ii) Why some enzymes are manufactured in inactive form? (iii) Why some enzymes need a cofactor? Define inhibitors with examples. (iv) (v) Write down names of four animal diseases caused by Fungi. (vi) Define parasexuality and give its importance. (vii) Differentiate between Polyps and Medusae. (viii) Write down four harmful insects name and their relevant diseases. Why Reptiles are different from Amphibians? (ix) (x) Enlist Reptile like characters of Archaeopteryx. (xi) What is compensation point? When it occurs? (xii) Define carotenoids and give their importance. 3. Attempt any eight parts. $8 \times 2 = 16$ (i) Differentiate between Deductive and Inductive hypothesis. (ii) What is Hydroponic Culture Technique? Give use of this technique. (iii) How Glyoxysomes differ from Peroxisomes. (iv) What are storage diseases? Name two storage diseases in man-(v) Give importance of Chlorella. For what study plasmodial slime mold used as model organism? (vi) (vii) Write down ecological importance of Dinoflagellates. (viii) Green algae are considered ancestral organism of green land plants why? Why are Bryophytes called Amphibians plants? (ix) (x) Differentiate between Monocot and Dicot plants. (xi) What are essential and non-essential parts of flower? (xii) What is Cardiac Cycle? 4. Attempt any six parts. $6 \times 2 = 12$ Write the botanical names for amaltas and tomato. (i) (ii) Differentiate between lag phase and log phase. Explain Scraping type of feeding. (iii) What is the role of nematocysts in the life of coelenterates? (iv) How peristalsis is different from antiperistalsis? (v) How does breathing differ from respiration? (vi) (vii) Explain briefly Asthma. How much CO_2 is present in venous and arterial blood. (viii) Lung cancer is more frequent in smokers. Comments your own. (ix) SECTION-II NOTE: Attempt any three questions. $3 \times 8 = 24$ 5.(a)Define Cloning. What is its mechanism and products? 1 + 3 = 4Why transpiration is considered as a necessary evil? 4 (b) 4 6.(a) Describe functions of proteins. (b) Discuss different methods of asexual reproduction in fungi. 4 4 7.(a) Describe the classification of bacteria on the basis of flagella. (b) Define alternation of generation. Also describe its significance. 4 4 What is binomial nomenclature, give its importance. 8.(a) pakcity.org 4 (b) Discuss role of carbon dioxide as a photosynthetic reactant. 4 Discuss structure and function of ribosomes. 9.(a) 4 Give role of oral cavity in digestion. (b)

Please visit for more data at: www. 1890 (MULTAN)

Paper Code 2021 (A) Koll No. INTERMEDIATE PART-I (11th CLASS) Number: Multan Board-2021 TIME ALLOWED: 20 Minutes PAPER-I GROUP-I BIOLOGY **MAXIMUM MARKS: 17 OBJECTIVE** Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER. Q.No.1 The sexual process exhibited by most ciliates is called: (1) (B) Binary fission (D) Conjugation (C) Budding (A) Oogamy Which of following is important as bioindicator of air pollution? (2) (D) Mycorrhizae (A) Yeasts (B) Lichen (C) Rust fungi Double fertilization is the characteristic of: (3) (D) Pteridophytes (B) Gymnosperms (C) Bryophytes (A) Angiosperms Which one of following is freshwater sponge? (4) (D) Euplectella (C) Spongilla (A) Sycon (B) Leucoselenia Duckbill platypus belongs to subclass: (5) (D) Prototheria (A) Eutheria (B) Atheria (C) Metatheria Photosynthetic pigments are organized into dusters, called (6) (C) Phytochrome (D) Chromatophores (B) Photosystem (A) Cytochrome Dark reaction takes place in: (7) (A) Stroma (B) Granum (D) Cytoplasm The human stomach is situated below the: (8) (B) Kidneys (C) Spleen (D) Diaphragm (A) Liver How many polypeptide chains are present in Myoglobin? (9) (B) 2 (C) 3 (D) 4 (A) 1 The loss of water through hydathodes in leaves is called: (10)(D) Imbibition (C) Guttation (B) Transpiration (A) Bleeding The arteries divide into smaller vessels called: (11)(D) Arterioles (C) Capillaries (B) Venules (A) Veins Tentative explanation of observation is called: (12)(A) Deduction (B) Theory (C) Reasoning (D) Hypothesis Human tissues contain 85% water in cells of: (13)(B) Blood (C) Brain (D) Bone (A) Liver Enzymes involved in cellular respiration are found in: (14)(D) Nucleus (B) Ribosomes (C) Cytoplasm (A) Mitochondria Cell wall is secreted by: (15)(D) Protoplasm (C) Nucleoplasm (B) Lysosomes (A) Ribosomes Family include related: (16)(C) Order (D) Class (B) Genera (A) Species Pili are made up of special proteins called: (17)

Please visit for more data at: www.pakcity.org

(D) Actin

(C) Pilin

(B) Tubulin

(A) Flagellin

Multan Board-2021 _{2021 (A)}	Roll No:
---------------------------------------	----------

INTERMEDIATE PART-I (11th CLASS)

	1		TO TE ATT OWNED, 2 40 House
BIOLOGY	PAPER-I	GROUP-I	TIME ALLOWED: 2.40 Hours

SUBJECTIVE MAXIMUM MARKS: 68
OTF: Write some cluestion number and its part number on answer book.

NOTE: Write same question number and its part number on answer book, as given in the question paper.



	а	SECTION-I	9
2.		Attempt any eight parts.	$8\times2=16$
۷.	(i)	Write any two properties of lipid.	
	(ii)	Define competitive inhibitor. Give example.	
	(iii)	Differentiate between apoenzyme and co-enzyme.	
	(iv)	What are irreversible inhibitors?	
	(v)	Describe carnivorous fungi. Give one example.	
	(vi)	Define Toadstools. Give any two examples.	
	(vii)	Define placenta. What is its function?	
	(viii)	Write economic importance of sharks.	
	(ix)	Write some beneficial properties of insects.	
	(x)	Write two fundamental characters of Chordates.	
	(xi)	What is alcoholic-fermentation?	
	(xii)	Define photophosphorylation. Give its types.	
3.	()	Attempt any eight parts.	$8\times 2=16$
-,	(i)	Define Parasitology and molecular biology.	
	(ii)	What is integrated disease management?	
	(iii)	What is fluid mosaic model about the structure of cell membrane?	
	(iv)	What are Leucoplasts? Give their function. Write two characteristics of amoebas.	
	(v)	Write two characteristics of amoebas.	
	(vi)	Write two characters of slime molds.	
	(vii)	How fungus like protists differ from fungi	
	(viii)	Define Thallus.	
	(ix)	Define alternation of generation.	
	(x)	Write two differences between monocot and dicot.	
	(xi)	Write briefly symplast pathway for uptake of water.	
	(xii)	Write briefly about blue babies.	
4.		Attempt any six parts	$6\times 2=12$
	(i)	Define species.	
	(ii)	What are Bacilli Bacteria? Give one example.	
	(iii)	Define digestion.	
	(iv)	What is peristalsis?	
	(v)	What is pyrosis?	
	(vi)	Why air is better respiratory medium than water? Give two reasons.	
	(vii)	What are vocal cords? Give their function.	
	(viii)	What is Pleura?	
	(ix)	What is asthma?	
		SECTION-II	
21	OTTE	Attach and three questions	$3 \times 8 = 24$

NOTE	: Attempt any three questions.	$3\times8=24$
5.(a)	How biology improved food quality and quantity for mankind?	4
(b)	Define immunity and give its types in detail.	4
6.(a)	Explain various aspects of importance of water.	4
(b)	Describe asexual reproduction in fungi.	4
7.(a)	Discuss nutrition in bacteria.	4
(b)	Write a note on class gymnospermae.	4
8.(a)	Describe lytic ¢ycle of bacteriophage.	4
(b)	Sketch and explain calvin cycle in plants.	4
9.(a)	Write a comprehensive note on mitochondria.	4
(b)	Describe structure and function of large intestine of man?	4

question. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER. Q.No.1 (1)If the non protein part of enzyme is covalently bonded, it is known as: (A) Prosthetic group (C) Activator (B) Co-enzyme (2)Attachment of two subunits of ribosomes is controlled by: (A) K+ (B) Ca++ (C) Na+ (3) Absorptive mode of nutrition is found in: Please visit for more data at: www.pakcity.org (A) Algae (B) Fungi (C) Plants (4) When flagella surround the whole cell of bacteria, it is termed as: (C) Amphitrichous (A) Atrichous (B) Lophotrichous Kelps, the largest known algae belong to group: (5) (6)Lichen is symbiotic association between fungi and: (C) Gymnosperms (A) Protozoans (B) Photoautotrophs First plants that formed true leaves and roots, are: (7) (B) Sphenopsida (A) Lycopods (C) Pteropsida (8) Excretory structures present in annelids are: (A) Flame cells (B) Kidneys (C) Nephridia The pores through which water enters the body of sponges is called: (9) (A) Stomata (B) Spiracles (C) Osculum (10)Xanthophylls absorb the light: (A) Yellow to orange (B) Red to orange (C) Green to yellow (11)Photosystem I is also called as: (A) P_{680} (B) P₇₀₀ (C) P_{780} (12)Chyme enters into duodenum through sphincter: (A) Cardiac (B) Anal (C) Pyloric (13)Above 70% of Co2 is transported in form of: (A) HCO₁ (B) Co₂-2 (14)Which light enhance the uptake of K^* in guard cells?

(B) Blue

(B) Deduction

(B) 0.25 %

Immunoglobulins present in plasma play a role in:

(A) Defense against diseases (B) Water balance

Percentage of DNA in a mammalian cell is:

It is virtually an irrefutable theory:

(C) Green

(C) 2%

(D) 4 %

26(Obj)(ななな)-2021(A)-11000 (MULTAN)

(A) Red

(A) Hypothesis

(A) 1%

(15)

(16)

(17)

Multan Board-2021

OBJECTIVE

GROUP-II

wher Code

BIOLOGY

PAPER-I

Number:

Roll No INTERMEDIATE PART-I (11th CLASS) TIME ALLOWED: 20 Minutes MAXIMUM MARKS: 17 Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is convert the control of bubble sheet. Use marker think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill that bubble in front of that question number, on bubble in zero mark in that or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. No create the series of the seri (D) Binding site (D) Mg++ (D) Animals (D) Peritrichous (D) Euglenoids (D) Angiosperms (D) Angiosperms (D) Malpighian tubes (D) Ostia (D) Green to orange (D) P₆₆₀ (D) Iliocolic (C) Carboxyhaemoglobin (D) Oxyhaemoglobin (D) Violet (C) Transport of O2 (D) Salt balance (C) Scientific law (D) Experiment

D =		Mu	ltan	Boa	ard-20	21 _{2021 (A})		lo:
RIC)L0	GY	PAP		MIERM	EDIATE PA	RT-I (11th C	(LASS)	LLOWED: 2.40 Hours
			AP	EK-I	GROU	P-II			
NO	TE:	Wels				SUBJECT	IVE	MAXIM	IUM MARKS: 68
	•	as giv	same	question	n number a	nd its part nu	IVE nber on answe	r book,	ஆ [®] pakcity.org இ
		8	on m (ne ques	n number a tion paper.	SECTIO			8 × 2 = 16
2.	cis.	Att	empt ar	ıy cight	parts.				0 N 2 - 1 - 1
	(i) (ii)					nd pyrimidines	, antalus	ed reaction.	
	(iii)	WI	at are co	factors	? Give their	function in an	enzyme cataly s	Cu Tour	
	(iv)	Wh	at is a c	e betwe	en an activa	tor and a prostle of an enzyme?	icuo group.		
	(v)	Wh	at is nuc	lear mi	tosis?	01 22. 02			
	(vi)			ycorrhi					
	(vii) (viii)	Wh Die	at are pe	eudoco	elomates?	d osculum of a	sponge.		
	(ix)		at is rad		en ostiani a	14 050014111	• -		
	(x)	Wh	at is syr	inx?			ion		
	(xi)	Wri	te balan	ced equ	ation of alco	holic fermenta	IOII.		$8 \times 2 = 16$
3.	(xii)	Wh:	at are cy	tochron y eight	nes?				0 ^ 2
	(i)	Dag	oriha h	dropon	ic culture tec	hnique.			
	(ii)	Wh	at is flu	d mosa	ic model of r	lasma memora	ne?	^	
	(iii)	Wh	at do yo	u know robiolog	about autop	nagy:	\alpha \cdot	(o)	
	(iv) (v)					gellates.	:	tes	
	(vi)	D:6	ferentiat	e hetwe	en micronuc	leus and macre	nucleus in cilia		
	(vii)	Wh	at same t	A CONTER	OT ITISH DUU	a model organ	1 / / /		
	(viii) (ix)	44.11	4 1- 1	Lia fort	ilization?	1101	(6.0)		
	(x)	Diff	erentiat	e betwe	en gymnospo	erms and angio	sperms.		
	(xi)					closed circulate			$6 \times 2 = 12$
	(xii)	A 44-	must an	v eir na	rts.				0 × 2 – 12
4.	(i)	Dear	v a lahe	ed diag	ramota bac	teriophage.			
	(ii)	**	1	ie diffe	erent from sli	mer			
	iii)	How	Lichen	sare dri	Saliva and	Mycorrhiza?			
207	iv) v)	****	- t- Lum	ver none	re and its cau	SC:			
	vi)	1600	tion tur	proper	fies of respu	atory surface.			
Ċ	vii)				re of nasal c Write its fu		kcitv.org		
	viii)	What	ion char	nragnu nges in (chest cavity	mai cause one	ration.		
(ix)					SECTIO	<u>V-11</u>		$3 \times 8 = 24$
NOT	E: .	Attem	pt any t	hree qu	iestions.				4
5.(a)	Dis	cuss b	iologica	l metho	a.				4
(b)	Def	ine ca	rdiac cy	cle. Wr	ite its three	distinct stages.			
(-)						primary and se			4
6.(a)	Wri	te diff	erent su	uctures	or proteins (4
(b)					to fungi.				4
	Dag	oribe r	hysical	and che	mical metho	ods to control b	acteria.		
7.(a)	Des	cribe p	///yorear	olution	of leaf.				4
(b)					of leaf.				4
8 (2)	Def	ine her	atitis. E	Explain i	its various ty	pes.			4
8.(a)	Close	oh ran	niratory	electro	n transport c	hain.			4
(b)							deia		4
9.(a)						ns of Mitochor	uria.		4
100 10 To 100 To					ge intestine.				7
(b)	200								TT 4 ND

	Multan	Boa
Paper Code		2019
10.4 C. 10.394.0		

Roll No:

INTERMEDIATE PART-I (11th CLASS)

BIOLOGY

Number:

PAPER-I

(NEW SCHEME)

GROUP-1

TIME ALLOWED: 20 Minutes

OBJECTIVE

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve questions on this sheet of OBJECTIVE PAPER.

No.1						
(1)	The reasoning from	general to specific is:				
	(A) Inductive	(B) Deductive	(C) Scientific	(D) Theoretical		
(2)	Our blood normally contains Glucose:					
	(A) 0.6 %	(B) 0.8 %	(C) 0.06 %	(D) 0.08 %		
(3)	Lock and key mode	I was proposed by:				
	(A) Koshland	(B) Emil Fischer	(C) Flemming	(D) Wilkins		
(4)	The fluid which surrounds thylakoids is:					
	(A) Matrix	(B) Stroma	(C) Cytosol	(D) Nucleoplasm		
(5)	The capsomeres pro	The capsomeres present in the capsid of Adeno-virus are:				
	(A) 152	(B) 162	(C) 252	(D) 352		
(6)	Rapid phase of growth of Bucteria is:					
	(A) Lag phase	(B) Log phase	(C) Stationary phase	(D) Death/decline phase		
(7)	Most green algae p	ussess cell walls with:	Soll			
	(A) Cellulose	(B) Chitin	(C) Silica	(D) Pectin		
(8)	Ustilago species are	e most commen:				
	(A) Rust fungi	(B) Smut fungi	(C) Mold	(D) Yeast		
(9)	The simplest of all	the Bryophytes are:	Tuna Period			
	(A) Mosses	(B) Liverworts	(C) Homworts	(D) Club Mosses		
(10)	Dolphin is:					
	(A) Fish	(B) Bird	(C) Mammal	(D) Amphibian		
(11)	Coral reefs are mo	stly formed of:				
	(A) Calcium carbo	nate (B) Silica	(C) Chitin	(D) Lignin		
(12)	Chlorophyll a is:					
	(A) Yellow green	(B) Blue green	(C) Orange green	(D) Yellow green dark		
(13)	(13) The number of chloroplasts in each Mesophyll cell is about:					
	(A) 10-50	(B) 20-100	(C) 30-80	(D) 100-200		
(14)	Fresh saliva has pl	ł:				
	(A) 4	(B) 6	(C) 8	(D) 7.3		
(15)	The heart of Fish i	s:				
	(A) Single circuit	(B) Double circuit	(C) Triple circuit	(D) Multi circuit		
(16)	About of t	About of total transpiration takes place through cuticular transpiration.				
	(A) 1-2 %	(B) 5-7 %	(C) 90 %	(D) 2-5 %		
(17)	One complete heart beat lasts for:					
	(A) 0.8 seconds	(B) 0.4 seconds	(C) 0.15 seconds	(D) 0.2 seconds		

Multan Board-2019 2019 (A) Roll No: INTERMEDIATE PART-I (11th CLASS)

DLOGY PAPER-I (NEW SCHEME) GROUP-I

70 00	LOWED: 2.40 Hours SUBJECTIVE M.	AXIMUM MARKS: 68
AE AL	LOWED: 2.40 Hours SUBJECTIVE Write same question number and its part number on answer book,	pakcity.org
2	e given in the question paper.	make ity. org
	SECTION-I	$8 \times 2 = 16$
	Attempt any eight parts.	
(i)	Draw general formula for an Amino acid. How enzyme concentration affects the rate of enzyme action?	
(ii)		
(iii) (iv)	At high level of substrate concentration, enzyme reaction is not increase	d. Why?
(v)	What role fungi and algae play in lichen?	
(vi)	Define dikaryotic phase with example.	
(vii)	Give two common characters of Armetids and Armropous.	
(viii)	What are harmful effects of insects?	
(ix)	Give two uses of sharks. What is swim bladder? Give its function.	
(x)	Define accessary pigments. What is their role?	
(xi) (xii)	What is compensation point? When it occurs?	$8 \times 2 = 16$
(211)	Attempt any eight parts.	8 × 2 = 10
(i)	Define Phyletic Lineage.	
(ii)	How deductive reasoning is different from inductive reasoning?	^
(iii)	Differentiate between chromoplast and leucoplast.	<u></u>
(iv)	What are microtubules? Write their function. Write something about giant amoeba.	
(v)	How algae are different from plants?	
(vi) (vii)	- a u . o Cina de aconticonce () ()	
(viii	Write importance of Alone	
(ix)	What are antheridiophores and archegoniophoxes	
(x)		
(xi)	A . \ \	
(xii)) What is passive infiniting.	$6\times 2=12$
(.	Attempt any six parts. What are capsid and capsomere?	
(i) (ii)		
(iii)		
(iv)	Give composition of saliva.	
(v)	What is heart burn?	
(vi)		
(vii	to the state of th	en?
(vi (ix		
(1)	SECTION-II	
NOTE	: - Attempt any three questions.	$3\times8=24$
		4
5.(a)	Discuss Biological method.	4
(b)	What is Cohesion tension theory?	7
6.(a)	Write a note on Acylglycerol.	4
(b)	Give an account of animal diseases caused by Fungi.	4
(0)		
7.(a)	Write various methods to control bacteria.	4
(b)	Give land adaptations of bryophytes.	4
8.(a)	Discuss the lytic cycle of the Bacteriophage.	4
(b)	What is anaerobic respiration? Discuss its types.	4
	Describe structure and functions of cell membrane.	4
9.(a)		4
(p)	Explain causes and remedy of food poisoning and obesity.	4

aper Code

2462

Roll No.

INTERMEDIATE PART-I (11th CLASS)

Number: GROUP-II (NEW SCHEME) PAPER-I BIOLOGY

MAXIMUM MARKS: 17

TIME ALLOWED: 20 Minutes

OBJECTIVE

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number. Use marker or pen to fill the bubbles.

ink is correct, fill that bubble in front of that question have in that question. Attempt as moutting or filling two or more bubbles will result in zero mark in that question. Attempt as moutting or filling two or more bubbles will be a questions as given in objective type question paper and leave others blank. No credit will be a questions as given in objective type questions on this sheet of OBJECTIVE PAPER.	
.No.1 (1) In deductive reasoning we	

- (C) General to general (D) Specific to specific (B) Specific to general (A) General to specific
- Total weight of water in bacterial cell is: (2)
 - (A) 10%
- (B) 30%
- (C) 50%
- (D) 70%

Irreversible inhibitors form which bonds with active site? (3)

- (A) Hydrogen bonds
- (B) Covalent bonds (C) lonic bonds
- (D) Hydrophobic bonds

Cell membrane is chemically composed of proteins: (4)

- (A) 10 20 %
- (B) 20 30 %
- (C) 40 50 %
- (D) 60 80 %

Influenza viruses are: (5)

- (A) RNA enveloped
- (B) RNA non-enveloped (C) DN.
- enveloped (D) DNA non-enveloped

Pilli are primarily involved in: (6)

- (A) Movement
- (B) Conjugation
- (D) Excretion

Phycoerythrin is found in: (7)

- (A) Green algae
- (B) Red algae
- (C) Brown algae
- (I)) Blue green algae

Rhizopus belongs to class: (8)

- (A) Deuteromycetes
- (B) Ascomycetes
- (C) Basidiomycetes (D) Zygomycetes

Which of the following were the first plants that formed true leaves and roots? (9)

- (A) Psilopsids
- (B) Lycopods
- (C) Megaphylls
- (I)) Ferns

(10) Pseudocoel is found in:

- (A) Ascaris
- (B) Neries
- (C) Lumbricus
- (D) Pheretima

(11) Example of tunicate is:

- (A) Amphioxus
- (B) Molgula
- (C) Amphibia
- (D) Reptilia

Chlorophyll 'a' of photosystem I absorbs maximum light of: (12)

- (A) 670 nm
- (B) 680 nm
- (C) 690 nm
- (D) 700 nm

(13) Which is stimulus for cyclic phosphorylation?

- (A) Low CO,
- (B) Low O_2
- (C) Low ATP
- (D) Low NADPH

Which of the following has tube type digestive system? (14)

- (A) Cockroach
- (B) Amocha
- (C) Hydra
- (D) Planaria

(15) Respiratory distress syndrome is common in:

- (A) All new borns

- (D) Old age people

(B) Premature infants (C) Adults (16) Closely associated with root pressure is a phenomenon:

- (A) Transpiration
- (B) Exudation
- (C) Evaporation
- (D) Humidity

(17) Antiserum is a serum containing:

- (A) Antibodies
- (B) Antibiotics
- (C) Antigen
- (D) Anticancer chemicals

26(Obj)(☆)-2019(A)-12000 (MULTAN)

Roll No:.... 2019 (A) INTERMEDIATE PART-I (11th CLASS) PAPER-I (NEW SCHEME) GROUP-II BIOLOGY MAXIMUM MARKS: 68 TIME ALLOWED: 2.40 Hours SUBJECTIVE NOTE: - Write same question number and its part number on answer book, as given in the question paper. SECTION-1 $8 \times 2 = 16$ Attempt any eight parts. 2. What is the function of mRNA? (i) Define Coenzyme. (ii) Differentiate between Holoenzyme and Apoenzyme. (iii) What is Activator? (iv) What do you know about nuclear mitosis? (v) Differentiate between endomycorrhizae and ectomycorrhizae. (vi) What is Mantle? (vii) What are spicules? (viii) Describe disinfestation of Taenia (ix) What are tunicates? (x) What is source of Oxygen during photosynthesis? (xi) What is the use of Spectrophotometer? (xii) $8 \times 2 = 16$ Attempt any eight parts. 3. What is Bioremediation? (i) What is Biological control? (ii) What are Peroxisomes? Wall of Co (iii) Define Storage diseases. (iv) What are actinopods? (v) How slime molds are different from fungi? (vi) Describe evolutionary significance of euglenoids. (vii) What are red tides? (viii) How male cone of pinus differs from female cone (ix) Define Ovule. (x) Briefly describe pulmonary circulation (xi) What is honey dew? (xii) $6 \times 2 = 12$ Attempt any six parts. 4. What are the symptoms of ANDS (i) What is plasmid? Give its importance. (ii) What are detritivores animals? (iii) Define the term peristalsis. (iv) What is gastrin? Give its function. (v) How much Carbon dioxide is present in venous and arterial blood? (vi) What is pulmonary tuberculosis? Write down its cause, (vii) What is Myoglobin? How does it differ from haemoglobin? (viii) What is the effect of Carbon dioxide on the transport of Oxygen in blood? (ix) SECTION-II $3 \times 8 = 24$ NOTE: - Attempt any three questions. 4 Define the following branches of Biology. 5.(a) (iv) Biotechnology (ii) Microbiology (iii) Parasitology (i) Molecular Biology Describe the mechanism of opening and closing of stomata. (b) 4 6.(a) Describe the primary and secondary structure of protein. 4 (b) Describe characteristics of Basidiomycota. 4 Give economic importance of Cyanobacteria. 7.(a) 4 Describe life cycle of Adiantum. (b) Write a detailed note on "AIDS". Draw life cycle of HIV. 8.(a) Explain Kreb's cycle in detail. Draw flow sheet diagram of its reactions. (b) What is Cytoskeleton? Give its functions. 9.(a)(b) Describe events that occur during the process of swallowing.

Multan Board-2019

(B) Abscisic acid

(A) Acetic acid

(C) Hydrochloric acid (D) Sulphuric acid

Please visit for more data at: www.pakcity.org

2018 (A)

Roll No:

INTERMEDIATE PART-I (11th CLASS)

BIOLOGY PAPER-I (NEW SCHEME)

GROUP-I

pakcity.org

TIME ALLOWED: 2.40 Hours

SUBJECTIVE

MAXIMUM MARKS: 68

NOTE: - Write same question number and its part number on answer book, as given in the question paper.

SECTION-I

		SECTION-I	
2.		Attempt any eight parts.	$8 \times 2 = 16$
	(i)	Define Biotechnology and Microbiology.	
	(ii)	Differentiate between Hypothesis and Theory.	
	(iii)	Write down the cause of measles and small pox.	
	(iv)	Write the effect of temperature on enzyme action.	
	(v)	Differentiate between Binding site and Catalytic site of an enzyme.	
	(vi)	Differentiate between Holoenzyme and Apoenzyme.	
	(vii)	What is Syrinx? Where it is present?	
	(viii)	What is the Notochord? Write down its function.	
	(ix)	Differentiate between Ecdysis and Metamorphosis.	
	(x)	Write the four names of harmful insects.	
	(xi)	Differentiate between obligate parasites and facultative parasites.	
	(xii)	Differentiate between Plasmogamy and Karyogamy.	
3.		Attempt any eight parts.	$8\times 2=16$
	(i)	Write down misuses of Antibiotics.	
	(ii)	Give two characteristics of Giant Amoeba.	
	(iii)	What are Choanoflagellates?	
	(iv)	Why Euglenoids are placed in Algae as well as in Protozoa?	
	(v)	Differentiate between Fungi like Protists and Fungi.	
	(vi)	Differentiate between Microphylls and Megaphyll leaves.	
	(vii)	What are essential and non-essential parts of flower?	
	(viii)	Write down phases of aerobic cellular respiration.	
	(ix)	Differentiate between Absorption spectrum and Action spectrum.	
	(x)	Name three pairs of salivary glands with their location.	
	(xi)	What is Detritus Feeding? Give an example.	
	(xii)	Give name of hormones secreted by digestive system.	
4.	<i>(</i> *)	Attempt any six parts.	$6\times 2=12$
	(i)	Differentiate between Prokaryotic and Eukaryotic.	
	(ii)	Differentiate between Mononucleate and Binucleate cell. Give examples.	
	(iii)	What do you means by heat of vaporization of water?	
	(iv)	Differentiate between plasmolysis and deplasmolysis.	
	(v) (vi)	Define Cohesion Tension Theory. What are Peroxisomes? Give their functions.	
	(vii)	Differentiate between Haemoglobin and Oxyhaemoglobin.	
	(viii)	Differentiate between Inspiration and Expiration.	
	(ix)	What are the symptoms of Asthma?	
	(IA)		
		SECTION-II	
NO)TE: -	Attempt any three questions.	$3 \times 8 = 24$
5.(a) W	rite a comprehensives note on drug treatment and gene therapy.	4-
(b) Gi	ve detailed account of Oedema and Thalassaemia.	4

NOTI	E: - Attempt any three questions.	$3\times8=24$
5.(a)	Write a comprehensives note on drug treatment and gene therapy.	4
(b)	Give detailed account of Oedema and Thalassaemia.	4
6.(a)	Give importance of Water.	4
(b)	Discuss mutualistic symbiotic association of fungi.	4
7.(a)	Give the structure and functions of Mitochondria.	4
(p)	Write a note on absorption of food in small intestine.	4
8.(a)	Describe structure of a Bacteriophage.	4
(b)	Sketch different steps of Glycolysis.	4
9.(a)	Give physical methods to control microorganisms.	4
(b)	Give the adaptation in Bryophytes for land habitat. Please visit for more data at: www.pakcity.org	4

Please visit for more data at: www.pakcity.org

		Multa	n Board	-2018		
Paper Code		2018 (A)		Roll No.		
Numbe	r. 2468	INTERME	DIATE PAR	T-I (11th CLASS)		
				and a second and a second as a	pakcity.org	
BIOL	OGY PAPER-	I (NEW	SCHEME)	GROUP-II	- parcity.org	
TIME	ALLOWED: 20 N	linutes	OBJECT	TIVE	MAXIMUM MARKS: 1	
think is Cutting questio	correct, fill that bu or filling two or mo ns as given in object	bble in front o ore bubbles w ive type quest	of that question ill result in zer- ion paper and	number. Use marke mark in that questic	to credit will be awarded in	
(1)	The number of caps	The number of capsomeres in the capsid of adenovirus is:-				
	(A) 452	(B) 35	52	(C) 252	(D) 152	
(2)	The interval of time	until the com	pletion of next	division is known as:-		
	(A) Interphase (B) Generation time (C) Reproductive time				e (D) Growth	
(3)	Amoebas move and obtain food by means of:-					
	(A) Cilia	(B) F	agella	(C) Plasmodium	(D) Pseudopodia	
(4)	The cell wall of fungus contains:-					
	(A) Cellulose (B) Chitin (C) Calcium carbonate (D) None of these					
(5)	The plants belonging to group Sphenopsida are also called					
	(A) Amphibians of the plant (B) Hornworts (C) Club mosses (D) Arthrophytes					
(6)	The tsetse fly of African countries transmits Trypanosoma, the cause of:-					
	(A) Sleeping sickne	ss (B) M	leasles	(C) Lung infection	(D) Malaria	
(7)	Polymorphism is the			s of phylum:-		
	(A) Porijera	Bic	nidaria	(C) Platyhelminthes	(D) Nematoda	
(8)	Conversion of one pyravic acid into one acetyl CoA gives off one molecule of:-					
	(A) ATP	(B) C	xygen	(C) Carbon dioxide	(D) Water	
(9)	In the first step of	citric acid cycl	e, acetyl CoA r	eacts with oxaloacetate	to form:-	
	(A) Pyruvate	(B) C	Citrate	(C) NADH	(D) ATP	
(10)	Hydra is the examp	ple of:	pa	kcity.org		
	(A) Tentacular feed	ling (B) S	craping feeding	(C) Filter feeding	(D) Fluid feeding	
(11)	Asthma is associated with severe paroxysm of difficult:-					
	(A) Sleeping	(B) S	preading	(C) Walking	(D) Breathing	
(12)	The left systemic a	arch disappears	in:-			
	(A) Amphibians	(B) E	Birds	(C) Reptiles	(D) Fishes	
(13)	Platelets are not ce	lls but are frag	ments of large	cells called:-		

17

(C) Megakaryocytes (D) Karyokinesis (A) Microkaryocytes (B) Karyocytes (14) A large regional community primarily determined by climate is:-(D) Population (C) Biome (B) Biosphere (A) Biomass (15) Most of the cellular secretions are in nature:-(D) Glycoproteins (C) Carbohydrates (B) Lipids (A) Proteins (16) According to Lock and Key model the active site is a:-(B) Flexible structure (C) Liquid structure (D) Enzyme (A) Rigid structure (17) Golgi apparatus is concerned with cell:-

(B) Lysis

(A) Division

(C) Secretions

(D) Storage

Roll No:

4

2018 (A) INTERMEDIATE PART-I (11th CLASS) BIOLOGY PAPER-I (NEW SCHEME) **GROUP-II** TIME ALLOWED: 2.40 Hours **SUBJECTIVE** MAXIMUM MARKS: 68 NOTE: - Write same question number and its part number on answer book, as given in the question paper. → pakcity.org SECTION-I 2. Attempt any eight parts. $8 \times 2 = 16$ Define bioremediation with one example. (i) (ii) What are bio-pesticides? Give one example. (iii) Differentiate between the Capsid and Capsomere. How is the Apoenzyme different from Holoenzyme? (iv) Write down the effects of high temperatue on the activity of enzymes. (v) (vi) Compare Pepsin with Pepsinogen. (vii) What is polymorphism? Give an example. (viii) What is Madreporite? Write its functions. Differentiate between Protostomes and Deuterostomes. (ix) (x) How is the Spiral Cleavage different from Radial Cleavage? (xi) What is Histoplasmosis? Write its cause and effects. (xii) Differentiate between Rusts and Smuts. 3. Attempt any eight parts. $8 \times 2 = 16$ (i) Differentiate between Antibiotics and Antiseptics with examples. (ii) Define Apicomplexans with example and mode of transvirsion. Differentiate between Pseudopodia and Flagella. (iii) (iv) What are Pyrrophytas? Give its examples and pigments. What are Diatoms? Write its role in the ecosystem. (v) Differentiate between Overtopping and Planation (vi) (vii) Differentiate between Homospory and Heterospory (viii) Define accessory pigments and its role in transferring of energy. Differentiate between Alcoholic and Lactic acid fermentation with Reactions. (ix) (x) Differentiate between Saprophytic and Parasitic mode of nutrition. (xi) What is meant by symbiotic nutrition? Give its examples. (xii) Differentiate between Detritivores and Omnivores with examples. Attempt any six parts. What is heat capacity of water? Give its importance. 4. $6 \times 2 = 12$ (i) 1 + 1 = 2(ii) Mention two functions of smooth endoplasmic reticulum. 2 What are storage diseases? Give an example. (iii) 1 + 1 = 2(iv) Define Photorespiration. Write its significance. 1 + 1 = 2(v) In hot and dry season, level of O_2 rises inside the leaf. Give its reasons. 2 (vi) Mention at least two properties of respiratory surfaces in animals. 2 (vii) What types of respiration occur in frog? 2 (viii) Write a short note on Stroke. 2 (ix) Differentiate between Thrombus and Embolus. 1 + 1 = 2SECTION-II NOTE: - Attempt any three questions. $3 \times 8 = 24$ Explain the biological methods for solving biological problems. 4 **(b)** Compare closed and open circulatory system. 4 Write a note on Phospholipids also give their structural formula. 6.(a) Why taxonomic status of fungi has changed from that of a group of plant kingdom (b) to a separate kingdom "Fungi"? 7.(a) Define Cell Cytoplasm. Explain its functions. (b) Explain "Digestion in Hydra". 8.(a) Write a note on AIDS. Describe the role of water in Photosynthesis.

Write down the main characteristics and economic importance of cyanobacteria.

Please visit for more data at: www.pakcity.org

Explain the gametophyte of adjantum.

9.(a)