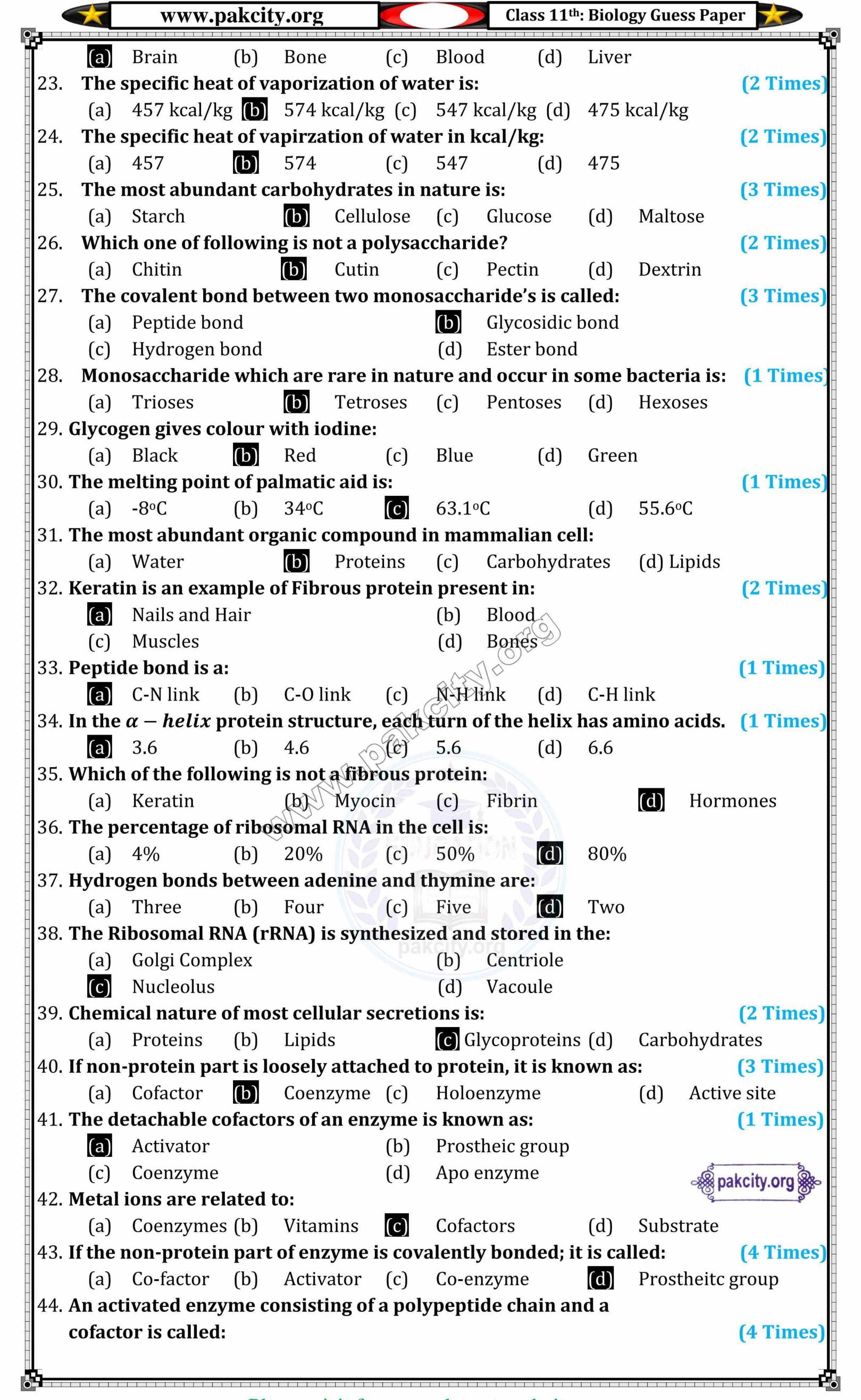
**Human tissues have 85% water in cells of:** 

(2 Times



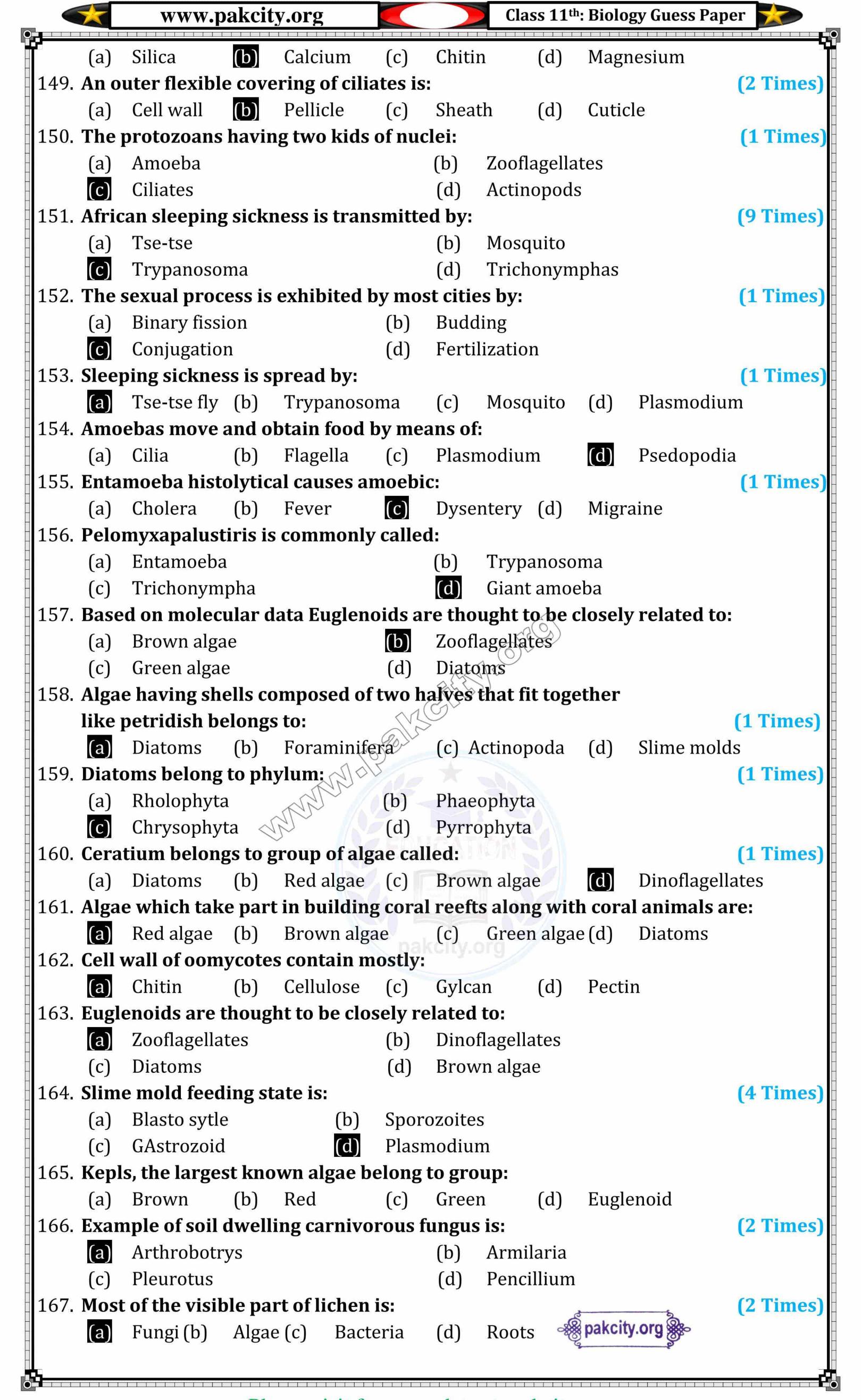
		www.j	pakcit	y.org				Cla	ss 11 <sup>th</sup>	: Biolo	gy Gue	ss Pap	er
	(a)	Apoenzym	ne <b>(b)</b>	Holo	enzym	e	(c)	Coen	zyme		(d)	Both	A & B
45		zyme with i			5 <b></b>		~ ~		•			ated a	as:(3 Times)
		Holoenzyn						i <del></del>			1.50	Activ	1021
46		nzymes inv									No.		
	(a)	Chloroplas	st (b	) Ribo	somes	1	(c)	Mi	tocho	ndria	(d)	Gogil	bodies
47	. Lock	and Key mo	del w	as pro	posed	by:							(2 Times)
	(a)	Koshland	(b)	Emil	Fische	r	(c)	Flem	ming		(d)	Wats	son
48	. Accor	rding to lock	k and l	key m	odel, t	he ac	tive si	te is:					(3 Times)
	(a)	Soft struct	ure			(b)	Flexi	ble Str	uctur	e			
	(c)	Attractive	Struct	ure		(d)	Rigid	Struc	ture				
49	. Induc	ed fit mode	el was	propo	sed by	<b>7:</b>							(2 Times)
	(a)	<b>Emil Fisch</b>	er	(b)	Koshl	and	(c)	Jenne	er	(d)	Paste	eur	
50	. Optin	num ph for	the pr	oper f	functio	ning	of enz	yme s	sucras	se is:			(4 Times)
	(a)	2.00	(b)	4.50		(c)	5.50		(d)	7.60			
51	. The o	ptimum pH	l of sal	ivary	amyla	se is:							(3 Times)
	(a)	2.80	(b)	4.80		(c)	6.80		(d)	8.80			
52	. The o	ptimum pH	l of en	zyme	pepsin	is:							(3 Times)
	(a)	2	(b)	6.8		(c)	7		(d)	9			
53	. The e	enzyme with	ı optin	num p	H=7.6	0 is:							(1 Times)
	(a)	Arginase	(b)	Ente	rokinas	se	(c)	Catal	ase	(d)	Sucra	ase	
54	. The o	ptimum ter	mpera	ture o	of huma	an bo	dy en	zyme	is:				(2 Times)
	(a)	27°C	(b)	37°C	Ĺ	(c)	47°C		(d)	57°C	+		
55	. Optin	num pH val	ue for	enzyr	ne pep	sin is	in the state of th	6					(1 Times)
	(a)	4.50	(b)	9.00		(c)	2.00	10	(d)	5.50			
							SHE	2)					
56	. The o	ptimum pH	l of cat	talase	is:	S. S.	>						(2 Times)
	(a)	6.60	(b)	7.60	(0	(c)	8.60		(d)	9.60			
57	. Optin	num pH for	action	ı of pa	ncreat	tic lip	ase is	all le	***************************************				
	(a)	3.00	(b)	5.00		(c)	7.00		(d)	9.00			
58	. The c	ompetitive	inhibi	tors o	f succr	nic ac	id is:						(1 Times)
	(a)	Furmaic ac	cid				(b)	Malo	nic ac	id			
	(c)	Citric acid					(d)		c acid				
59	. Poiso	ns like cyar	aides,	antibi	otics a	nd so				ample	s of:		(1 Times)
	(a)	Enzymes	(b)		nzymes		(c)	Inhib	itors	(d)	Cofac	ctors	
60	. Revei	rsible inhib				nkage							
	(a)	Substrate					(c)	Enzy	me	(d)	React	tant	
61		esolution o				21 15			72 GE				(1 Times)
	(a)			1um		(c)	1nm		(d)	1cm			
62	926 EV)	lution powe			<del></del>	e state i Aust		<del></del>					(1 Times)
		300X			m		$2.0\mu r$	n	(d)	2-4 A	ngstro	on	
63	£*	lution of hu	70mm		eye is:					- 21   No. 1			
ES 521		162		262		(c)	252		(d)	152			
64		h is not four	nd in p	orima	ry wall	?							
	(a)	Cellulose					(b)		cellul	ose			
	(c)	Lignin			2 4	1 <u>95</u> ger	(d)	Pecti		52	<u> </u>		
65		rocess of ta					₹				lled:		
		Phagocyto											
	(c)	Pinocytosi				꺌	(d)		hocyt	tosis			
66	. The p	ercentage l	ipids i	in plas	sma m	embr	ane is	•					

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		(a)	60-80%	(b)	30-60%	(c)	20-40	%	(d)	10-2	0%	
	67.	Cell m	nembrane i	s chem	ically co	mposed	of pro	teins	:			(1 Times)
		(a)	10-20%	(b)	20-30%	(c)	40-50	%	(d)	60-8	0%	
	68.	Cell w	all is secre	ted by	:						3	(3 Times)
		(a)	Protoplas	m			(b)	Nucl	eoplas	m 🍕	pakcity.org	<b>*</b>
		(c)	Golgi Com	plex			(d)	Ribo	some		§	
	69.	When	cross-sect	ion of	centriole	is obser	ved it	show	s as it	consi	ists of:	
		(a)	9-microtu	bules		(b)	3-mic	rotub	ules			
		(c)	11- micro	tubules	,	(d)	6- mic	crotul	bules			
	70.	The so	oluble part	of the	cytoplas	m is call	ed:					
		(a)	Stroma	_	(b) Ge	el	(c)	Cytos	sol		(d) Matr	ix
	71.	Cister	nae are as	sociate	ed with:	<i>a</i> >		1984	_			
		(a)	ER			(b)	Mitoc					
	70	(c)	Nucleus		1	(d)	Chlor	3 <del>5</del> 3				
	72.		ful substan		e detoxifi	ied in the	200		W.4	leverage to		
		(a)	Mitochon						plami	С		
	72	(c)	Golgi Com	( <del>, •</del> ):	had ta m	ambuan			eolus	sta of	2 marta Na	ma it
	/ 3.				nea to m		Mitoc			StS 01	2 parts. Na	me it.
		(a) (c)	Golgi Appa Lysosome			(b)	Ribos		Ha			
	74		up of ribos		tached to				•			(1 Times)
	/ 1.	_	Lysosome			10	Polys		,. .{d)	Glyox	kisome	(1 Times)
	75.		ttachment				<b>5</b> 2		26	GIY 02	nsome	(2 Times)
			$Ca^{+2}$		$Mg^{+2}$	(c)	$K^{+2}$	(0)	(d)	$Fe^{2+}$		
	76.		ins are syn			(-)	PASS	) "	()	2		(4 Times)
	at Each et		Polysome			ome 🚫	(c)	Lyso	some	(d)	Ribosome	
	77.		actory of ri			(0)						(1 Times)
		(a)	30S	(b)	50S	(c)	70S		(d)	80S		
	78.	Eukar	yotic ribos	omes	are comp	osed of a	almost	equa	al amo	ount o	f:	
		(a)	RNA and I	rotein	W.		(b)	DNA	and P	rotein		
		(c)	RNa and L	ipid			(d)	RNA	and Ca	arbohy	ydrates	
	79.	Most	of the cell s	ecretio	ons are in	nature.	Leading Control					
		(a)	Proteins	. ,	Lipids		(c)	Carb	ohydr	ates	(d) Glycopi	roteins
	80.	Gogi a	ipparatus i			7/7 - 1/2/1	ccity.o	ra				(2 Times)
	0.4	(a)	Division	(b)	Lysis	(c)	Secre		(d)	Stora	O	
	81.	<del></del>		se is be	ecause of	absence	e of an	enzy	me. T	hat is	involved in	
			olism of:	awidaa		(l-)	Olian	l-	مينامامم			(1 Times)
		(a) (c)	Polysacch Proteins	ariues		(b) (d)	Lipids		arides			
	ຊາ	( )	ach's disea	CA PACI	ilte dua t				araine	calle	of:	(1 Times)
	02.		$Mg^{+2}$ Ions						(d)	Lipid		(I Times)
	83.	V50 E00	ve discove	(FR SPEC)		EP-72 575	TTOLC	1113	(a)	пріч	.5	
			Mitochon				(c)	Plast	ids	(d)	Golgi Comp	olex
	84.		iameter of						2010		20191 20111	
		661 241	$0.2 \mu m$	ii <del></del>	(b) 0.3	- 1 <del></del>		(c)	$0.4\mu$ 1	n	(d)	$0.5 \mu m$
	85.		osomes ar			•						
		h <del>el</del> s	Human bl		<b>Y</b> ê	ant seedi	ngs	(c)	Liver	cells	(d) Micro	organisms
	86.	0.70	is not true				u <del>ne</del> v				्राच्याः <b>च</b> ित्र	
		(a)	Actin			(b)	Amoe	boid	mover	nent		
		€137 €137 1				3.60 525						

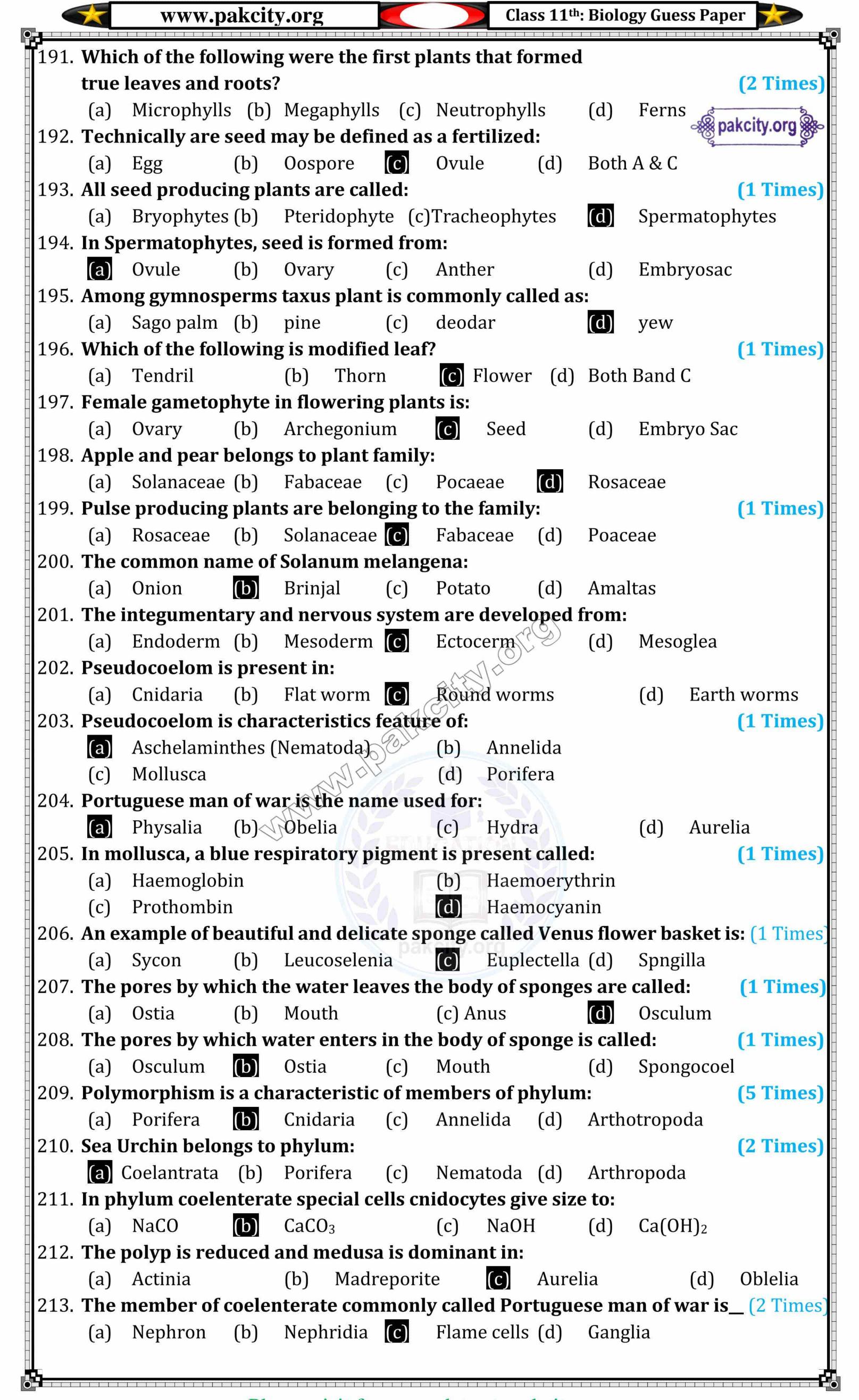
		www.pakcity.org			Class 11 <sup>th</sup>	<sup>a</sup> : Biolo	gy Gue	ss Paper
	(c)	Cyclosis	(d) Li	inked	with outer s	surface	e of pla	asma membrane
87	. The p	rotein present in microtub	ules is:					(1 Times)
	(a)	Actin (b) Tetroses	(c)	Tubu	ılin (d)	Trop	omyos	sin
88	. Cyclos	sis and amoeboid movemer	nts are ł	<b>secau</b>	se of:			
	(a)	Microtubules		(b)	Microfilam			
	(c)	Intermediate filaments		(d)	None of the			
89		ding of inner membrane of i	mitocho		_	3 32		(2 Times)
	(a)	Cisternae (b) Cristae		(c)	Granum	(d)	Thyla	akoid
90	.2 3	ae are found in:		>				
	(a)	•		(b)	Chloroplas			
	· C - 2	Endoplasmic reticulum		(d)	Mitochond		The second second	
91		h one of the following cellul			eran eran eran eran eran eran eran eran	ower	house	of the cell?
	(a)	Chloroplast	(b)	_	chondria			
	(c)	Golgibodies	(d) ha plant	<b>J</b>	somes			
92		moplast impart colours to the Poor	(*************************************			C 13	21	
	(a)	Yellow (b) Rec		(c)	Green	(d)	Blue	
93		na is a fluid in the chloropla	ist:	<i>(</i> )		C 13	*	
	~ ~	Thylakoids (b) Matrix		(c)	Granum	(d)	Inter	granum (1 Times)
94		ids are only found in:				C 13	A	(1 Times)
	(a)	Bacteria (b) Viruses	* 1444		Plant Cell	(d)	Anın	nal Cell
95		luid that surrounds the Thy		s can	6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	•	(1)	(2 Times)
06	(a) Pobor		oma		(c) Medi	ium	(d)	Cytoplasm
うし		rt Brown reported the pres			1 andria	(d)	Muc	
07		Lysosome (b) Ribosome		Mille	chondria	$(\alpha)$	Nucle	eus
71		ryotes have pores per nucle	eus:	8//	6 or 8	(d)	or or	
	~ >	3000 (b) 30,000 n <b>umber of pores in nuclear</b> p	and the second	7(L)		(d) te is:	3 or 4	<b>T</b>
フし		03 or 04 (b) 02 or 03				<b>te is:</b> 30,00	00	
99		nelle found in both prokary					JU	
		Ribosomes (b) Mitochon			0 - VIII A //L		(d)	Lysosomes
$\ _{10}$		sely related classes are grou			Cilioropias	ls	(u)	Lysusumes
	(a)		(c)	. <b>o.</b> Fami	ilv	(d)	Kinge	dom
$\parallel_{10}$		ially, the classification was			Ty	(u)	1,111.0	JUII
		Cytology (b) Physiolog			ahology	(d)	Gene	etic features
$\ _{10}$		omial nomenclature system			010 20	(~)	G	tic reacar 55
	(a)	Pasteur (b) De Duve		Lama		(d)	Linna	26116
$\ _{10}$	( )	omial system of nomenclatu	(A) (A)					acus .
	(a)	E-Chatton	(b)		t Hackle			
	(c)	Robert Whittaker	(d)		ous Linnearu	15		
$\ _{10}$	<b>C J</b>	common name for Solanun				10		(1 Times)
	(a)	. 20 12: PA	bacco	(c)	Onion		(d)	Tomato
10	( )	smallest known viruses con		<b>S</b> 2		apsid	The Lorenz Survey of	PART COLUMN
	(a)	Polio Viruses	A Chicago e	(b)	Pox Viruse	<del></del>	5500 ···	
	(c)	Herpes Viruses		(d)	Influenza V		S	
$\parallel_{10}$	( )	common name of Allium ce	epa is:					(1 Times)
	(a)	Piyaz (b) Bathu	(c)	Chan	nna (d)	Potat	to	
10		num tubersome is the scier	2 2		( )			
	(a)		mato	(c)	Potato		(d)	Garlic
10		anelle of symbiotic origin is						(5 Times)
	Delgrav	STO VOLUME						

) i			www.pakcity.	org			Class 11	-: D1010	gy Gue	ss Papel	
		(a)	Cell Wall			(b)	Cell memb	rane		6 -1-:4	
		(c)	Mitochondria			(d)	Vacoule		d	<b>∰</b> pakcit	y.org 🎆
	109.		e kingdom system,	Eukarvot	ic mu	( )		es are	nlace	ed in ki	ngdom:
	1071	(a)		(Alexander)		Fungi		Anim	Section on		Buom
	110	( )	number of capsome					7 111111	iaiia	0	4 Times)
	110.		152 <b>(b)</b> 2	A	0.00	352	(d)	452			Timesj
	111	. ,	cow disease is caus			332	(u)	TJ2		(	3 Times)
	111.					(a)	Prions		(4)	Virion	
	112	(a)	<b>\</b> ,	ungus	nt in l	(C) borno		cid ic	(d)	VIIIOII	
	114.	2 2	number of capsome	eres prese	2	All some some		151u 15.		·	2 Times)
		(a)	252 Capsomers		(d)		Capsomers				
	112	(c)	250 Capsomers	<b>.</b> .	(d)	100 (	Capsomers				
	113.		size of Parvovirus i		(a)	250 %	, (d)	75 m	22		
	111	(a)		0 nm	( )	250 n	<b>C</b> 3	75 ni			
	114.	( <del>-</del> )	omers are subunits		rm ca	psia c	or a virion.	rnese			
		4 4	someres are chemic	cany.		(I-)	N1:				
		(a)	Lipids			(b)	Nucelic aci	as			
	445	(c)	Carbohydrate	<b>1</b>		(d)	Proteins				
	115.		cycle completion of	<b>45</b>		( )	0 E .	<i>(</i> 1)	r <b>ai</b> i yay		
	442	(a)		25 mi		(c)	35 min	(d)	5 mir		4 mil >
	116.	2 2	myxoviruses cause	the disea	se:	<i>(</i> 1.)	<b>5</b> 11				1 Times)
		(a)	Influenza			(b)	Polio	1			
		(c)	Mumps & Measles			(d)	Herpes Sin	nple			
	117.		enza viruses are:		<b>a</b> 5	<b></b>					2 Times)
		(a)	DNA naked		(b)	V ? 3/	enveloped				
	440	(c)	RNA enveloped	•	(d)	COV	naked				4
	118.		sease, which is high		(2)		6.13	**		(	1 Times)
	440	(a)		lumps		Influe	. ,	Herp	es		
	119.		ch o the following v	iral diseas				rus?			
		(a)	Herpes simplex	D'	(b)	Influe					
	400	(c)	Mumps	103	(d)	Polio			5 <b></b>		
	120.		ch one of the follow					c 15	1220 - 1220		
	404	(a)	Small pox (b) I		, ,		myelitis	(d)	Mum	ps	
	121.		belongs to the grou	p of virus							
		(a)	Pox viruses		(b)		viruses				
	400	(C)	Retrovirus	<b>A</b>	(d)		riophage				
	122.		single standard RN			CALLY VEN I		A 1 1	•		
	400	(a)	Spherical (b) E	1967 °	(c)	Spira	l (d)	Cubi	cal		
	123.		atitis "B" is also call	ed:	<i>a</i> .	. C		*			
		(a)	Delta Hepatitis		(b)		tious Hepat	itis			
	101	(c)	Infusion Hepatitis		(d)	Serur	n Hepatitis				
	124.	_ =	atitis is an inflamma		C 3		7 12	771 7			1 Times)
	40-	(a)		ancreas •	(c)	Liver	(d)	Kidn	ey		
	125.	-	atitis C is caused by				D				
		(a)	DNA-non enveloped			(b)	DNA envel	\$ <del></del>			
	ت شد	(c)	RNA non enveloped		Erne: R. c.	(d)	RNA envel	oped			
	126.	<b>C</b> 3	n theory of disease	was form	ulated						
		(a)	Robert Koch			(b)	Louis Past				
	40-	(c)	Edward			(d)	Christian (	iram		W-	
	127.	Cell '	<b>Wall is absent in:</b>							(3	1 Times)

0			www.	pakcii	y.org				Cla	SS 11 <sup>th</sup> :	DIOIO	zy Gue	ss rape	
		(a)	E. Coli	(b)	Мусс	plasm	ıa	(c)	Vibri	0	(d)	Sprio	chete	
	128.	Curv	ed or com	ma sha	ped b	acteri	a are	called	:			- <del>-</del>		
		(a)	Vibrio	(b)	Spiri	llum		(c)	Spiroc	hetes	(d)	Bacil	li	
	129.	Oval	shaped ba	cteria	are:									
		(a)	Spirilla		(b)	Vibri	0		(c)	Cocci		(d)	Bacill	li
	130.	A ba	cteria with	single	polar	flage	llum i	s calle	ed:					
		(a)	Atrichous					(b)	Mono	otricho	us			
		(c)	Lophorich	ious				(d)	Ampl	hitrich	ous			
	131.	Pili a	re made u	p of sp	ecial	protei	n calle	ed:						(2 Times)
		(a)	Pillin	(b)	Flage	ellin	(c)	Tubu	lin	(d)	Myos	in		
	132.	Bact	eria witho	ut any	flagel	la are	called	l:						(5 Times)
		(a)	Flagellate	(b)	Atric	hous	(c)	Tubu	lin	(d)	Myos	in		
	133.	Rod	shaped ba	cteria a	are ca	lled:								
		(a)	Cocci	(b)	Bacil	li		(c)	Spiril	la		(d)	Vibri	0
	134.	Thes	se are smal	llest an	d witl	hout c	ell wa	ll:	-					(2 Times)
		(a)	Mycoplasi	ma (b)	Pseu	domor	nas (c)	Spiro	chete	(d)	E-Col	i		
	135.	Cell	wall of gra					<del></del>						
		(a)	Pink	(b)	Red		(c)	Greer	1	(d)	Purpl	e		
	136.	Whe	n flagella s	surrou	nd the	whol	e cell	of bac	teria,	it is to	ermed	l as:		
		(a)	Atrichous					(b)	Loph	otricho	ous			
		(c)	Amphitric	hous				(d)	Perit	richou	S			
	137.	In ba	icteria who		divisio	on is t	hree p	lanes	it wil	Lprod	uce w	hich	arran	gement:
		(a)	Streptoco				<del>(=</del> :	(b)	Tetra	$(O_{\lambda})$			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
		(c)	Sarcina					(d) <	(0)	coccus	S			
	138.	Whi	ch is an aeı	robic b	acteri	um?		3/12						(5 Times)
		(a)	E.Coli	(b)	Spiro	chete	(6)/5	Camp	yloba	cter	(d)	Pseu	domor	
	139.	Spire	ochete is a	~ ~		6	Collins	•						
		(a)	Aerobic	(b)	Anae	robic	(c)	Facul	tative		(d)	Micro	paerop	hilic
	140.	Asex	ual reprod	luction	in ba	cteria	occur	s by:					ē <b>-</b> ē	
		(a)	Conjugation		Do			(b)	Trans	sductio	on			
		(c)	Transform		~			(d)	Binar	y Fissi	on			
	141.	Rapi	d phase of	growt	h of Ba	acteria	a is:			30				
		(a)	Lag phase				(b)	Log p	hase					
		(c)	Stationary	phase			(d)	Decli	ne pha	ase				
	142.	Conj	ugation in	bacter	ia is p	romo	ted by	the s	tructi	ıre:				
		(a)	Flagella	(b)	Pili		(c)	Cillia		(d)	Spore	es		
	143.	The	thick walle	ed repr	oduct	ive ce	ll of cy	yanob	acter	ia are	called	l:		
		(a)	Heterocys	t (b)	Trich	ome	(c)	Horm	ogoni	a	(d)	Akine	ete	
	144.	Rese	rved food	materi	ial in c	yanol	oacter	ia is i	n the	form o	f:			(7 Times)
		(a)	Sucrose	FS.C. 124	Starc	=======================================		(c)	Glyco		22 12.27	Prote	eins	
	145.	All o	f the follov	<b>X</b> 32.					-	Ü				
		(a)	Trichome					(b)	Slimy	cover	ing			
		(c)	Branched	filamer	nts			(d)		cocyst	J			
	146.	( )	ch of the fo			ot pres	sent p			<b>J</b>				
		(a)	Flagella	(b)	•	ryo	<del></del>	Cilia		(d)	None	of the	ese	
	147.		anosoma i									- samuel estates and the	- PT	(2 Times)
		(a)	Actinopod		CP1		(b)	Zoofl	agella <sup>.</sup>	tes				,
		(c)	Apicomple				(d)	Ciliat	U	= 5				
	148.	. ,	s of for a m		a, are	made	( )		g ver dis					(5 Times)
					_,		-г							
1														



	*	www.pako	city.org		Clas	ss 11 <sup>th</sup> :	Biolo	gy Guess Papo	er
1168.	Whi	ch one is an exa	mple of folio	se lich	iens:				(1 Times)
	(a)	Ramalina (b)	<del>-</del>		(c) Lecan	ora	(d)	Permelia	and I de Illustration of the
169.	( )	ingi spores are		ide th	( )		uctu	re called:	
		Conidia (b)			Basidia		(d)	Ascocarps	
170.	Sexi	ual reproduction	n is absent in	:				•	(1 Times)
	(a)	Deuteromycota			(b) Zygon	nycota	L		
	(c)	Ascomycota			(d) Basidi	iomyc	ota		
171.	All f	ungal nuclei are	e haploid exce	ept fo	r transient d	iploid	TA-245		
	(a)	Spores	(b) Zygo	te	(c)	Conid	ia	(d) Zygo:	spores
172.	The	most common f	fungi are:						(1 Times)
	(a)	Ustilago		(b)	Gymnosper	ms			
	(c)	Mosses		(d)	Angiosperm	ıs			
173.	The	most common	rust fungi are	:					(1 Times)
	(a)	Ustilago (b)	Puccinia	(c)	Penicillium	(d)	Yeas	t	
174.	Yeas	sts are unicellul	ar:						
	(a)	Protozoans (b)	Algae	(c)	Fungi	(d)	Bacte	eria	
175.	Loo	se smut of whea	t is caused by	the f	ollowing fun	gi:			(1 Times)
	(a)	Puccinia (b)	Penicillium	ı (c)	Aspergillus	(d)	Ustila	ago	
176.	Colo	our of spores of	smuts is:						
		Penicillium (b)	-		Pilobolus	(d)	Mush	irooms	
177.	Lova	astain is used fo	r lowering bl	ood.					(4 Times)
	(a)	Pressure (b)		(c)	Cholesterol	(d)	Nera	spora	
178.	Reir	ideer moss used		einde	(0)				
	(a)	Moss (b)		_	(c) Mold		(d)	Club fungi	
179.	Pois	onous mushrod		<b>l</b> :	Sign		253		(3 Times)
1.00	(a)	Truffles (b)		6,5	(c) Agario	cus	(d)	Toadstools	
180.		astatin is fungal				C 13	0.1.1		
101	(a)	Sugar (b)	Cholestero	P(c)	Urea	(d)	Calci	um	(4 m:)
181.		oplasmosis is:	alle I	(la)	17: J J:				(1 Times)
		Heart disease	an li	(b)	Kidney disease				
102	(C)	Lung disease	od by	(d)	Skin disease				
102.		t <b>disease is caus</b> Puccinia (b)		(c)	Phizopus	(4)	Yeas	<u>L</u> a	
103	(a)	Puccinia (b) <b>lago species are</b>		(c)	Rhizopus	(d)	reas	L	
103.		Rust fungi (b)			Mold	(d)	Veas	<b>+</b> .	
184		ploid spermato				. ,			
	(a)	Oospore (b)			Spore		Game	_	
185	· /	copsida are com	· · · · · · · · · · · · · · · · · · ·		Spore	(u)	dami		(1 Times)
		Whisk fern (b)	₹ <u>5</u> .	Fig. 1	Club mosses	S	(d)	Hornworts	(1 miles)
186.		setail belongs to		(	GIGIS INOSSUE		(4)		
		Lycopsida (b)		19	Sphenopsid	а	(d)	Pleropsida	
187.	3, 5	plant of spheno			* *		()		
		Angiosperms				es	(d)	Arthrophyt	es
188.		cular plants belo						1 5	
		Whisk ferns(b)	9 9		(c) Horse			Ferns	
189.	~ ~	rhizome in adia							
H		Ramenta (b)					(d)	Stomium	
		ll leaves having							
	(a)	Microphylls(b)			Neutrophyll	ž.	(d)	Heterophyl	ls
	n e e e e e e e e e e e e e e e e e e e			960 NGP			own chill	573 <b>5</b> 3	? <u>**</u> **

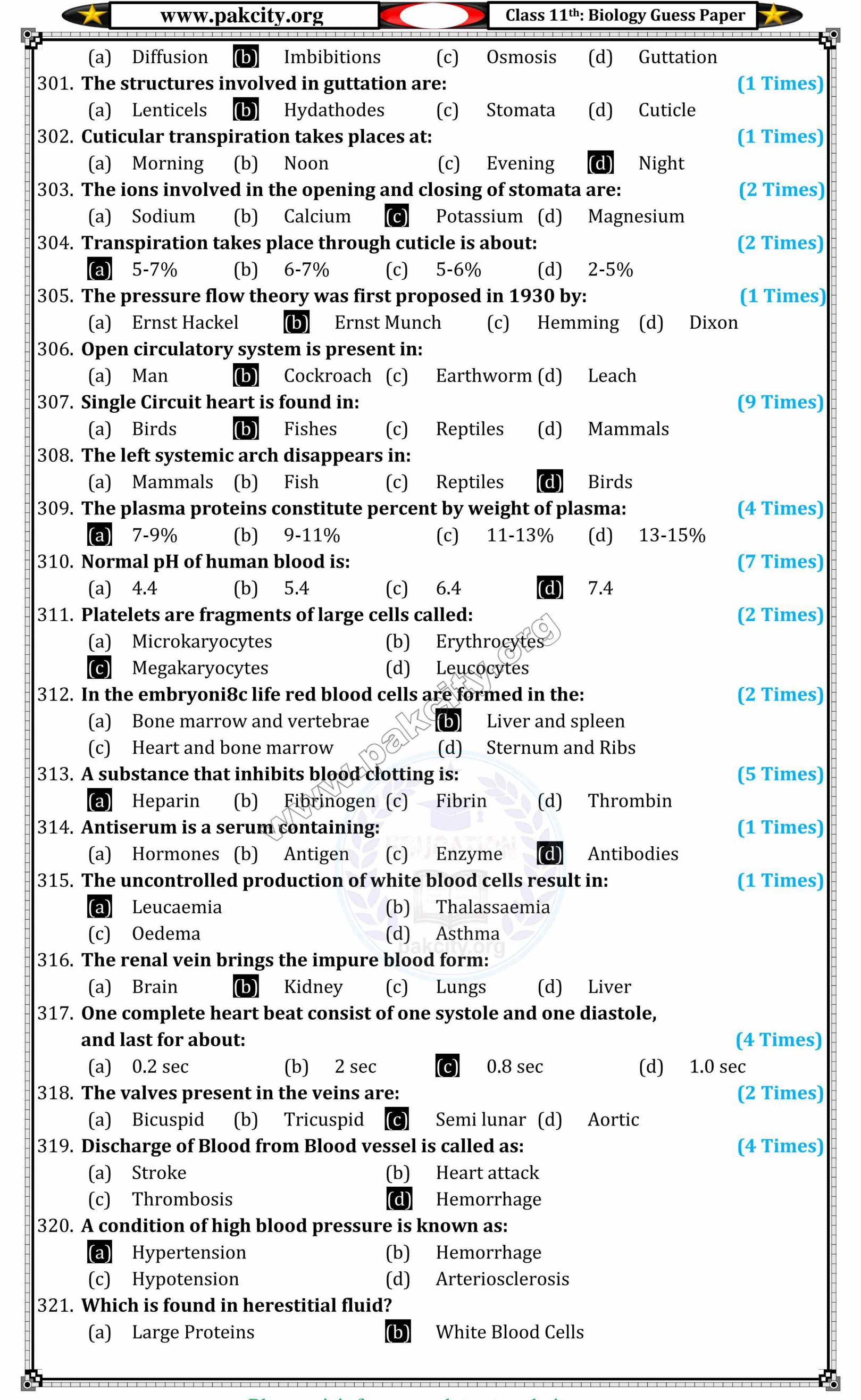


	*	www.pakc	ity.org			Cla	ss 11 <sup>tl</sup>	h: Biolo	gy Gue	ss Pap	er
214.	Flan	ne cells are excr	etory cells ir	1:							(2 Times)
	(a)	Flatworms	-		(b)	Segm	ented	l worn	าร		
	(c)	Round worms			(d)	Anse					
215.	Dug	esia is a free-liv	ing flatworm	with	a cilia	te out	er su	rface.	It is		
	Ŭ	ımonly known a	•								(2 Times)
	(a)			(c)	Bloo	d fluke	Įq.	(d)	Plana	aria	,
216.	( )	mon name for A									(2 Times)
		Pin worm (b)	•				1	(d)	Hook	k worn	
217.	(3)	body cavity of N		(-)			· <b>-</b>				(2 Times)
	(a)	Blastocoel (b)		elom		(c)	Coel	om	(d)	Haen	nocoelom
218.		ee swimming tro			prodi				( )		
		Coelenterate(b					(d)	<b>5</b> 0	opods		
219	2.000	es belongs to cla				muu	(a)	ender od serie is solve.	opous		(1 Times)
		Sponges (b)		(c)	Nenl	iron	(d)	Maln	ighian	tubul	
220		americally Segn							15	Labai	(3 Times)
		Annelids (b)				<u> </u>			noderi	ns	(o rimes)
221	(4.5.13 x364))	atic Arthropods		50° 170	Mon	uscus	(u)	ЦСПП	iloueri	113	(1 Times)
	<del>lar</del> .	Lungs (b)		(c)	Gills		(d)	Spira	cles		(I Times)
222		etory system in					(u)	Spire	icics		(2 Times)
	(a)		Nephridia		<del>r •</del> N		(d)	Maln	ighian	tuhul	
223	( )	go is an animal o	_	(127)					3.————————————————————————————————————		(1 Times)
	(a)		Garden sn		a wiii	(c)	Øyst	-	ancu.	(d)	Squid
224		ollusks, a respi			hlua c	~ 2			·balle		(1 Times)
<u>L</u> L T.	(a)	Haemoglobin	ratory pignic		(h)	\Haen	_		ancu.	ur	(1 Times)
	(c)	Haemocyanin			(b)	None	•				
225	(	den snails belon	ac to class:	1	Car	None	OI til	CSC			(1 Times)
	(a)	Gastropoda	gs to class.	Par	> Conh	alopod	da.				(I Times)
	(c)	Pelecypoda	~1~	(q) (p)	1	ropoda					
226	•	larva found in e	chinoderms		Ditti	Topour	1				(2 Times)
	(a)	Trochophore	CITAGGETIIIS	13.	(b)	Velig	or				(2 Times)
	(c)	Bipinnaria	41		(d)	Plana					
227		nals of which ph	vlum have d	lovelo	_ ( )			tom in	thoir		
		ae and radial:	iyiuiii iiave u	ic v c l o j	peu b	natera	1 3y3t		then		(1 Times)
	~ ~	Nematoda (b)	Annelida		(c)	Mollu	1502	(4)	Echir	noderr	
228	(a)	presence of not		char	(c)		isca	(u)	LCIIII	ioueri	IIata
		Arhtropoda (b)				atoda	(d)	Chor	data		
220	30 50	largest inverteb		(6)	Nem	atuua	(u)	CHOI	uata		
ZZ9.		P.) (24)		(a)	giant	t cavid	(4)	1,000	ruc		
220	<b>S</b> 2	Earth worm(b)		(c)	giain	t squid	(u)	Asca	rus		
Z30.		nples of tunicat		(a)	Amn	hibia	(4)	Dont	:1:0		
221		Amphioxus (b)	The state of the s		_	hibia		Rept	IIIa		
Z31.	1	ent fish that hav						(4)	T		<b>_</b>
	(a)	Dipnoi	(b) Aste	rias	(c)	Thali	acea	(d)	Lepto	ocardi	
232.		e organs of bird		e controve		<b>C</b>		C-13	<b>T</b> 7	]	(6 Times)
222	. ,	Larynx	(b) Phar	nyx	(c)	Syrin	X	(d)	voca	l cords	
Z33.		nx is an organ o		<u>.                                    </u>		ъ.		<i>(</i> 1)	N. A.		(1 Times)
204	(a)	Amphibians	(b) Bird		(c)	Repti	ies	(d)	Mam	mals	
234.		sub class that h	N-20		4			<i>(</i> 1)	N.T	C . 1	
00-	(a)	portotheria (b)		ıa	(c)	Euth	eria	(d)	None	e of the	
235.	Man	ımals become d	ominant in:								(2 Times)

0			** ** ** · ]	Jakcit	y.org				Cla	33 11	': B1010	gy Gue	ss rap	el D	
		(a)	Paleozoic	period			(b)	Meso	zoic p	eriod		8	1. 1.	- 5	4
		(c)	Coenozoic	•			(d)		<del></del>	c perio	od	≈‱ ba	kcity.o	rg 👺	
	236.	( )	garoo belor	•		iss:								(2 T	imes)
		(a)	Metahteria	_			(c)	Euth	eria	(d)	Repti	ilia			
	237.	<b>\</b>	ohin is:	. (~)			. (-)			()	P				
		(a)	Fish	(b)	Bird		(c)	Mam	mal	(d)	Amp	hibian	Ì		
	238.		ntitative st	•		v rela	~ ~							(4 Ti	imes)
	2001	(a)	Bioenerge	<u> </u>	oner 8.	y i ciu		(b)		nthes			mean	(	meej
		(c)	Biodegrad					(d)		chnol					
	239		gen release		ng nhơ	otosvr	ıthesi	( )			~ <i>Б</i> У				
	2071	(a)	Water	u uuri	ng pin	, coby i		(b)		on Dic	vide				
		(c)	Nitrates					(d)	Gluco		muc				
	240	( )	nd of chemi	cal lin	k hetv	veen a	naho	( )			ism			(2 T	imes)
	2 10.	(a)	Protein	cai iii				(c)		icaboi		None	e of th		inicsj
	241	( )	Niel hyposy	nthec	<i>™</i>					nlanto			or th	CSC	
	211.	(a)	10		20		(c)		oti iai	(d)	40	outi			
	242		Niel hypoth	. ,			· ,		durii	og nha		theci	c ic		
	272.	(a)	Water	ICSIZC	u mat i	Sourc	C OI O	(b)		on Dic	-201	itiicsi	3 13.		
		(c)	Chlorophy	11				(d)	NAD		Alue				
	242	• >	air space in		nav co	mnric	o un i	. ,			total v	alum	o of a	loafı	
	243.		80%		60%	шрпз		40%		(d)	20	Olulli	e or a	icai.	
	244		of the acces			wnthe				. ,		moctl	<b>T7</b> :	(1 T	imes)
	244.		Red to Ora		pnotos	ymune	tic pi	(b)	~	$J(O_{\lambda})$	)range		у.	(1 1)	inesj
		(a)	Green to Y					(4) (	$(\bigcirc)$	ge to I	J				
	245	(c)	of the follo		c not a	n acc	occor	(u)	21	ge to i	Neu				
	243.	(a)	Chlorophy		S HUL A	in acc		02		tenes					
		(c)	Xanthophy				90,5	(d) (d)		rophy]	ll "h"				
	246	( )	ecular form		r chlor	0 ) Wed was	) H "b" i		Cilio	орпу	u b			(A.T	imes)
	240.					фиу	(b)		$_{70}O_{6}N$	Ma				(11	imesj
		(a)	$C_{55}H_{72}O_5N_5$ $C_{55}H_{70}O_5N_5$	LMa	My			$C_{55}H$							
	247		orophylls ar		~	R	(u)	C5511	70061	6 <sup>14</sup> 9					
	277.	(a)	Alcohol	C IIISO	iubic i	13		(b)	Acet	one					
		(c)	Water					(d)			rachlo	ride			
	248		nesium of c	hloro	nhvll i	s renl	aced i					riac		(2 T	imes)
	2 10.	(a)	Calcium	(b)	Potas			Iron	10810	(d)	Score (44)	phoru	ıs	(	mesj
	249.	. ,	carotenes a	. ,				11 011		(4)	1 1100	pnord			
	_ 1,5.1		Blue	(b)	Yellov			(c)	Oran	ge		(d)	Gree	en	
	250.		on Dioxide	( )			throi	ıgh:	oran	8~			aree		imes)
			Epidermis					(c)	Airsp	ace	(d)	Stom	nata	(	inicoj
	251.		tosystem II					<b>C</b> 2			orb be				
			670 nm		680 n			<u> </u>		(d)	700 r	-			
	252.	. ,	light falling							•	, 00 1				
			1%	## ### ### ### #######################	25%					(d)	100%	6			
	253.		orophyll 'a'	. ,								Ü		(1 T	imes)
			Low CO <sub>2</sub>	8771				(c)	Low	B-124	(d)	Low	NADP		
	254.	.01761	dark reacti								<b>()</b>		em 23-66-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5	24(2)	imes)
			Ctyoplasm				(c)	Stron	na		(d)	Gran	ia		,
	255.		ne citric acio			<del></del>	\$ <del>. 19.0 (6.1.)</del> \$			aloac	. ,			(5 T	imes)
		(a)	Pyruvate		Citrat			(c)	NAD			(d)	ATP		
								<b>\</b>				. ,	-		

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256.	The	breaking of	term	inal pl	nosph	ate of	f ATP	relea	se ene	ergy of	abou	t:	(3 Times)
	(a)	4.5 Kcal	(b)	6.5 K	cal	(c)	3.7 K	Ccal	(d)	7.3 K	Ccal		
257.	The	amount of g			ATP (	during	g anae	erobio	c respi	iration	ı is:		
	(a)	1%	(b)	2%		(c)	3%		(d)	4%			
258.	The	final produc	ct of g	. 184 184 184 184 184 184 184 184 184 184 184 184 184 184 184 184	15								(1 Times)
	(a)	Citrate		(b)	· •	vate	(c)	Mola	ate		(d)	Fuma	arate
259.		ivic acid is t						-2	8 호텔.	2 <u>0</u>			(4 Times)
	ficanica a resident	Glycolysis			₹/	201 (201		70.00 m			<b>5</b> 0		
260.		n one pyruv	<del></del>	With the Park	throu	ugh Ki	rebs c	ycle h	iow m	any F	ADH2	<u>,</u>	
	178	ecules are fo					2.2		( 1)	0.4			(1 Times)
		01	<b>S</b> 2			558 LES			85 152			• • 4 =	
261.		first step of		1901						99 i 00e			form:
262	3 5	Isocitrate	7		-			Citra	ate	(d)	Mala	te	(2 Times)
202.		<b>espiratory c</b> l Cytochrom		(ADI)	IS UXI	uizeu	-	$\cap_{vv}$	ton				(3 Times)
	(a) (c)	Coenzyme-					(b) (d)	Оху <u>я</u> Н <sub>2</sub> О	gen				
263		nesium is aı		ortant	nutr	iont ic	( )		nlant	as it jo	c		
2001	_	ssential con	\$3 <del>778</del> )			lene ic	א זון זון	31 0011	Piane	asici	•		
	(a)	Cell sap	25_ 52:					Chloro	phyll	(d)	Gluco	ose	
264.	( )	ivorous pla	"S 2"			hat ar				(~)	MAN		
	(a)	Potassium				(c)		ogen	(d)	Magr	nesiun	1	
265.		ain types of						6	$A \setminus$				(1 Times)
		Detritivore					Fluid	l feed	ers				
	(c)	Omnivores				(d)		r\feed					
266.	In Co	ockroach th	e part	tially d	ligest	ed foc	diss	tored	in:				(1 Times)
	(a)	Rectum	(b)	Gizza	rd	(c) \	Crop		(d)	Colo	n		
267.	The	partly diges	ited fo		1 / 0	J	is ten	ipora	rily st	ored i	n:		
	(a)	Crop	(b)		ird 🗘	$\mathcal{L}(\mathbf{c})$	Rect	um	(d)	Stom	ach		
268.		tacles is a ch	ıaract	eristic				1 3		4 EX.	<u> </u>		(1 Times)
	(a)	Hydra		(b)	Snail			Amo		(d)	Eugle	ena	
269.		e buds of to								7 £ ,	section.		
270	(a)	Digestion	(b)		tion	(c)	Lubr	icatio	n (a)	Mast	ication	1	(4 Times)
2/0.		<b>sin is secret</b> o Mucous cel		1			7.m	a zan d	7011				(1 Times)
	(a)	Parietal cel				(b) (d)	KCITV	ogen c itic ce					
271	( )	cles of stom		re of v	which		OXy1.	itic ce	11				
	(a)	Skeletal				<u> </u>	Card	iac	(d)	Volu	ntary		
272.	( )	carbohydra	-								irear y		(1 Times)
	(a)	Lipase	B		ā'	lase	<del>2 2</del>				(d)	Tryp	and the same of th
273.	( )	eptides are b	oroke		<b>5</b> 3							J 1	0. TSS-0-0-0-0-0
		Erypsin									(d)	Lipas	se
274.	Нера	atic and pan	icreat	ic seci	cetion	ıs in n	nan ar	e stin	nulate	ed by:		255	(1 Time)
	(a)	Gastrin		(b)	Secre	etin	(c)	ADH		(d)	Adre	naline	
275.	The	length of Du	ıoden	um of	huma	an is a	bout:						<b>(1 Time)</b>
	(a)	15-20cm	(b)	20-25	5cm	(c)	30-3	5cm	(d)	10-1	5cm		
276.		le pigments											
	(a)	Gall stone	(b)	Jaund	lice	(c)	Pyro	sis		(d)	Hear	t Pang	
277.	Emu	lsification is	s the f	f <mark>unctic</mark>	on of:								
	(a)	Bile	(b)	Lipas	e		(c)	Amy	lase	(d)	Prote	ease	

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	278.	Exce	ess gastric sec	retion is	an imp	ortar	nt fact	or for					(1 Times)
		(a)	Water	(b)	Food		(c)	Blood	d	(d) (	Oxyg	en	
	279.	Wat	er is more vis	cous tha	n air:						= =	∞® na	kcitv.org
		(a)	10 Times (	b) 20 '	Гimes	(c)	50 Ti	mes	(d)	100 Ti	mes	-	
	280.	Dur	ing photoresp	iration,	glycine	is coi	nverte	d into	serir	ie in th	e:		(4 Times)
		(a)	Mitochondria	a		(b)	Ribos	some					
		(c)	Golgi Bodies			(d)	Chlor	roplast	t				
	281.	Spir	acles are fou <u>n</u>	id in:									(1 Times)
		(a)	Fish (	b) Coc	kroach	(c)	Leecl	n(d)	Earth	worm			
	282.		iber of spiracl	10									(2 Times)
				b) 10 l					(d)	06 Pai	rs		
	283.	7/Y 597 290	gs of birds hav					72		<u> </u>			(1 Times)
		. ,	Alveoli (	_		` ,	Bron	chi	(d)	Parabi	onch	ıi	
	284.	577 250	abronchi are p		· <del></del> -				C 12	D. 1			(2 Times)
	205	1001	862 Car	b) Fro	<u> </u>	(c)	Cat .		(d)	Birds			(0 m;
	285.		od is not invol		in EX	<u> </u>			(1)	N. //			(2 Times)
	206			b) Coc						Man			
	286.	1281 DI	ra is double la	<u> </u>					8 50	Vidnor	10		
	207	, ,	Heart (  ch one is the s	b) Live			Lung		(d)	Kidney	/8		
	207.		Esophagus (	i i		_			(d)	u. Duode	num		
	288		gs are covered			~ ,	-					d.	
	200.	ge	Pleura (	<del>(178</del> 1)					(0)	Diaphi			
	289		ch help in voi							Diapin	agiii		
			Spinal cord				1 (2)	1	(d)	Broncl	ni		
	290.		hemoglobin			4	( ) \		•			of bloc	od is:
			19.6ml	(b)		(0)				nl (d)			
	291.		hysema is a d	( )						( )			
		(a)		b) Tra	KAIN					Alveol	į		
	292.	Asth	ıma is associa	ted with	sever	parox	ym of	diffic	ult:				(1 Times)
		(a)	Sleeping (	b) Spe	aking	(c)	Walk	ing	(d)	Breath	ing		
	293.	How	many molecu	ıles of o	xygen c	an bii	nd wit	h a m	olecul	le of my	oglo	bin	
		(a)	04 (	b) 03		(c)	02		(d)	01			
	294.	The	volume of air	taken in	side th	ie lunį	gs and	expe	lled d	uring			
			rcise is about:										(3 Times)
			2.5 Liters			CON. 150		iters	(d)	4.5 Lit	ers		
	295.		al inside capac		_	(4) 125			6.13	<u></u>			
	20.6		to block	b) 3.51		(c)			(d)	5L	,	ę.	
	296.	4	oarian strips a	1. <del></del> 3						(11 Ti	an sang	Since the second	
	207		Endodermis		-			Corte	eΧ		(d)	Pith	
	297.		maximum dej			V.=			(4)	70			
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(c) Red Blood Cells

(d) Platelets



#### **SECTION-I**

## **Short Questions**



- 1. What is Biochemistry? Give its importance.
- 2. Define Metabolism and name its two processes.
- 3. What is heat capacity of water? Give its importance.
- 4. Define heat of vaporization? Give the heat o vaporization of water.
- 5. Differentiate between amylase and amylopectin starches?
- 6. Differentiate between glycosidic and peptide bond.
- 7. Sketch Ribofuranose and Glucopyranose.
- 8. What are oligosaccharides?
- 9. What are lipids? Give to roles of waxes.
- 10. Differentiate between saturated and unsaturated fatty acid.
- 11. Draw structural formula of glycylalnine.
- 12. Give genereal formula for an Amino Acid.
- 13. Differentiate between Nucleoside and Nucleotide.
- 14. Write down two differences DNA and RNA.
- 15. What are conjugated molecules?
- 16. What are enzymes and coenzymes?
- 17. Give role and examples of enzymes activator.
- 18. Differentiate between Co-factor and Co-enzyme.
- 19. Define apoenzyme.
- 20. Give differences between prosthetic group and activator.
- 21. How is Prosthetic group different from Co-Enzyme?
- 22. Give any two characteristics of enzymes.
- 23. What is active site of an enzyme?
- 24. Define Koshland model of enzyme action.
- 25. Define lock and key model of enzyme.
- 26. Discuss enzyme concentration in affecting rate of enzyme action.
- 27. Write the effect of temperature on the enzyme action.
- 28. How pH affects the rate of enzyme action?
- 29. What is meant by inhibitors of enzyme? Give two examples.
- 30. Differentiate between reversible and irreversible enzyme inhibitors.
- 31. What are competitive and non-competitive enzyme inhibitors?
- 32. What is nuclear mitosis?
- 33. State role of fungi and Algae in Lichen for each other.
- 34. What is mycorrhiza?
- 35. Define endomycorrhizae and ecomycorrhizae.
- 36. Differentiate b/w karyogamy and plassmogamy.
- 37. What are dikaryotic hypae?
- 38. How Budding differ from fragmentation?
- 39. How spore are differ from conidia?
- 40. What are smuts?

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- 41. Whatis parasexuality in fungi?
- 42. Give the ecological importance of lichens.
- 43. What is histoplasmosis? Give its causes.
- 44. What is ergotism? How is it caused?
- 45. Differentiate between radial and bilateral symmetry.
- 46. Differentiate between diploblastic and triploblastic animals.
- 47. Differentiate b/w schizocoelous and enterocoleous coelom.
- 48. Differentiate b/w protostomes and Deuterostome with two points.
- 49. Differentiate b/w coelomates and acoelomates.
- 50. How Acoelomates differ from pseudocoelomates?
- 51. What are diploblastic animals?
- 52. What is mesoglea and spongocoel?
- 53. Write down the importances of sponges.
- 54. How ostia differ from osculum?
- 55. What is polymorphism?
- 56. Differentiate b/w polyps and medusa.
- 57. What are coral reefs?
- 58. What is hermaphrodite animals? Give an examples.
- 59. Write any two parasitic adaptation is flat worms.
- 60. What do you mean by infestation and disinfestations?
- 61. Give beneficial effects of insects.
- 62. Name two harmful insects.
- 63. Write down affinities of echinoderms with hemichordates.
- 64. Give any two basic characteristics of Cordata,
- 65. Give two commercial importance of sharks?
- 66. Give the role of swim bladder in bony fishes.
- 67. Write down any four characteristics of class osteichytes (Bony fish)
- 68. What is Syrinx? Give function.
- 69. Give reptilian characteristics of Archaeopteryx.
- 70. Write any three characteristics of mammalian.
- 71. What are prototheria? Give two examples.
- 72. Write down the features of subclass Metatheria.
- 73. Give two characters of subclass eutheria.
- 74. Define bioenergetics.
- 75. Give any two difference between photosynthesis and respiration.
- 76. Define photosynthesis. Give its summary equation.
- 77. What is compensation point?
- 78. How chlorophyll "a" differs with chlorophyll "b"?
- 79. What are accessory pigments in plants? Give their functions.
- 80. Define absorption spectrum.
- 81. How action spectra can be obtained?
- 82. Give differences between antenna complex and reaction centre.
- 83. What is Z-scheme?
- 84. What are photosystems? Give their types.
- 85. Differentiate between photolysis and photophosphorylation.
- 86. Define Chemiosmosis.
- 87. What are Aerobic and Anaerobic respiration?
- 88. Define Glycolysis.

# 89. What is biological oxidation?

### Section - II

## **Short Questions**



- 90. Define microbiology and biotechnology.
- 91. Differentiate between Fresh water Biology and Marine Biology.
- 92. How much Micromolecules differ from Macromolecule?
- 93. What is population? Give its four attributes.
- 94. Differentiate between population and community.
- 95. Define the term biome with example.
- 96. Define Biodiversity? Give its percentage of different groups of organisms discovered so for.
- 97. Define phyletic lineage and biodiversity.
- 98. Define deductive reasoning and inductive reasoning:
- 99. Define theory. Give important features of a good theory.
- 100. Write names of four Eras of Geological time chart.
- 101. What is hydroponic culture technique?
- 102. What is "integrated disease management"?
- 103. Differentiate between chemotherapy and radiotherapy.
- 104. Compare radiotherapy and gene therapy to control disease.
- 105. Differentiate between gene therapy and chemotherapy,
- 106. What is Biological Control? Give its examples.
- 107. Differentiate between biopesticides and biological control.
- 108. Define Bioremediation and endangered species.
- 109. Write down salient features of cell theory.
- 110. Define fluid mosaid model of the cell membrane.
- 111. Define cell wall also give chemical composition of primary and secondary cell wall.
- 112. What is cytosol?
- 113. Give three functions of smooth endoplasmic reticulum (SER).
- 114. How cristae is different from cisternae?
- 115. Differentiate between phagocytosis and pinocytosis.
- 116. Define polysome and ribosomes.
- 117. Write down the two functions of Golgi complex.
- 118. Define storage diseases. Give at least their two examples.
- 119. Differentiate between microtubules and microfilaments?
- 120. How microtubules differ from microfilaments?
- 121. Give any two important functions of centrioles.
- 122. Differentiate the particles from cristae.
- 123. What are chromoplasts? Give their functions.
- 124. What is stroma? Give its function.
- 125. What are Thylakoid and Granum?
- 126. What are chromosomes? Why they are important?
- 127. Write two distinguishing characters of kingdom protista.
- 128. Characteristics Giant Amoeba.
- 129. Name a parasitic amoeba. What disease does it cause?
- 130. Write the two characteristics of zooflagellates.
- 131. What are choanoflagellates?

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- 132. Write don two characteristics of ciliates.
- 133. What is the function of pellicle in ciliates?
- 134. Name the nuclei of ciliates.
- 135. Write any two characteristics of foraminifera?
- 136. How are foraminiferans source of line stone?
- 137. Write down two characteristics of apicomplexans.
- 138. Define term thallus.
- 139. How algae differ from plants.
- 140. Write a note on Euglenoids.
- 141. Write any two characteristics of Dinoflagellates.
- 142. What are red tides?
- 143. Write any three characteristics of diatoms.
- 144. What are kelps? Name the parts of thaullus of a kelp?
- 145. Green algae are considered ancestral organism of green land plants, why?
- 146. What are importance of any two algae?
- 147. Write down similarities and differences between fungi and fungus like protista.
- 148. Why Physarum Polycephalum is a model organism for research?
- 149. Give two characters of water molds.
- 150. What was the reason for migration out of Ireland?
- 151. Differentiate between organismic and cellular respiration.
- 152. In what way air is a better respiratory medium than water?
- 153. Define photorespiration? Name organelles involved in it:
- 154. Define respiratory surface. Give their properties.
- 155. What are parabronchi?
- 156. What is difference between glottis and epiglottis?
- 157. What is vocal cord? Give its function
- 158. Differentiate between bronchi and bronchioles.
- 159. Differentiate between diaphragm and pleura.
- 160. What is respiratory distress syndrome?
- 161. Give percentage of CO<sub>2</sub> in venous and arterial blood.
- 162. How does carbon Dioxide concentration affect the oxygen carrying capacity of blood Hemoglobin?
- 163. How pH affects the capacity of hemoglobin to combine with oxygen?
- 164. Name some respiratory disorders and explain one.
- 165. What is asthma? Give its two causes.
- 166. What are the Symptoms of Emphysema?
- 167. How hemoglobin differ from myoglobin?
- 168. What is diving reflex?
- 169. Differentiate between diffusion and osmosis.
- 170. Describe briefly the symplast pathway.
- 171. Define water potential.
- 172. Define Guttation? What factors affect it?
- 173. What is Bleeding? Name the factors responsible for bleeding.
- 174. What are Lenticels? Give their function.
- 175. Define transpiration? Which is the most common type of transpiration.
- 176. Write a note on single circuit heart.
- 177. Differentiate between single and double circuit and double circuit heart with example.
- 178. Differentiate between pulmonary and systemic circulation.

- 180. What are blue babies?
- 181. Discuss Hypertension.
- 182. What is brain hemorrhage? Give its two preventative measures.
- 183. Differentiate between thrombus and embolus.
- 184. Write are lymph nodes? What is their function?
- 185. Define immunity and give two types.
- 186. Define Active and Passive Immunity.
- 187. Differentiate between natural active immunity and artificial active immunity.

## **Section - III**

## **Short Questions**



- 188. Give biological classification of corn.
- 189. What is binomial nomenclature? What are two rules of nomenclature?
- 190. Why euglena is difficult to classify?
- 191. Viruses are intracellular obligate parasites. Comment.
- 192. Differentiate between the capsid and caspomere.
- 193. What are prions?
- 194. What are capsomeres and what is their number in adenovirus?
- 195. How virion differs from prion?
- 196. Differentiate between lytic and lysogenic phage.
- 197. What are the symptoms of AIDS?
- 198. What are mumps and measlers?
- 199. What are Retrovirus and Paramyxoviruses?
- 200. What is Hepatitis? How is it caused?
- 201. Write down symptoms and preventions of hepatitis.
- 202. Describe four postulates of germ theory.
- 203. What do you know about huge bacterium?
- 204. What are pili? Give their functions?
- 205. What is plasmid?
- 206. What are mesosomes? Write their role.
- 207. Name the bacteria, which are photosynthetic?
- 208. Differentiate between lag and log phase.
- 209. How respiration occurs in bacteria?
- 210. What is ecological importance of bacteria?
- 211. Differentiate between microbioidal and microbistatic chemicals.
- 212. Differentiate between antibiotics and antiseptics with examples.
- 213. Discuss the role of Edward Jennar in Vaccination method of treatment.
- 214. Write a few lines on misuse of antibiotics.
- 215. What are trichomes? Give the structure and function of Heterocysts.
- 216. What is phylogenetic system of classification?
- 217. Write down any four characters of bryophytes.
- 218. What are amphibious plants of the world?
- 219. Differentiate between antheridiophores and archegoniophores.
- 220. How spores of mosses differ from spores of liver wort?
- 221. Define Paraphyses.

- 222. What is alternation of generation? Give its significance.
- 223. Why the plants belonging to group sphenopsida are called as arthophytes?
- 224. Define the term Circinate Vernation.
- 225. Give common name of adiantum.
- 226. Name the two living and extinct representative of Psilopsida.
- 227. Differentiate between microphylls and megaphylls.
- 228. What is overtopping?
- 229. Differentiate between homospory and heterospory.
- 230. Define Seed and Ovule.
- 231. What are gymnospermae? Give examples.
- 232. Differentiate between male and female cones of pinus.
- 233. How does gymnosperm differ from angiosperms? Give two points only.
- 234. What are essential and non-essential parts of flower?
- 235. Define double fertilization. In which plants, it occurs?
- 236. Differentiate beteen dicots and monocots.
- 237. What is chlorosis and what is their cause?
- 238. What are insectivorous plants? How they get their carbohydrates?
- 239. What is meant by symbiotic nutrition?
- 240. Differentiate between saprophatic and Parasitic mode of nutrition.
- 241. What are leguminous plants?
- 242. What is detritus feeding? Give examples.
- 243. What are filter feeders? Give their two examples.
- 244. What are Macrophagous feeding? Give one example.
- 245. Differentiate between facultative and obligate parasite.
- 246. Define digestion and egestion.
- 247.Define sac like digestive system and tube like digestive system regarding their efficiency.
- 248. Differentiate between Herbivores and Carnivores.
- 249. Differentiate between absorption and assimilation.
- 250. Name the ingredients of saliva.
- 251. Write only two functions of oral cavity.
- 252. What is heart burn or pyrosis?
- 253. Differentiate between chime and bolus.
- 254. Name different cells with their secretions which produce gastric juice.
- 255. Give names of hormones secreted by digestive systems.
- 256. How the gall stones are formed?
- 257. Write the composition of pancreatic juice.
- 258. Compare diarrhea and constipation.
- 259. What is Dyspepsia? Give its two symptoms.
- 260. How adipose tissue is formed?



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## **Long Questions**

## Long Question No. 5



- 1. Differentiate between deductive and inductive reasoning with examples.
- 2. Explain the biological method for solving a biological problem.
- 3. How study of Biology helped mankind to improve production of food.
- 4. Define cloning discuss its types and the commercial importance of the technique.
- What is the role of study of Biology in the welfare of mankind in the field of protection and conservation of environment?
- 6. Describe the role of drug treatment and gene therapy in disease control.
- List the air passage way in the sequence from nostrils to alveoli. Describe the structure of alveolus in detail.
- 8. Explain inspiration and expiration in man.
- 9. In what ways air is better respiratory medium than water?
- 10. In what ways, respiration is birds the most efficient and elaborate?

## Long Question No. 6

- 1. Why carbon occupies the central position in the skeleton?
- 2. Describe the importance of water of life.
- 3. What are polysaccharides? Describe its two different types.
- 4. Describe acylglycerols in detail.
- 5. Write a note on primary structure of protein.
- 6. What functions are performed by proteins in the bodies of living organisms?
- 7. Discuss Watson & Crick model of DNA.
- 8. How asexual reproduction occurs in fungi.
- 9. Explain sexual reproduction in Fungi.
- 10. Describe and draw/sketch life cycle of Rhizopus.
- 11. Give the adaptations of fungi on land.
- 12. Write any four economic gains due to fungi.
- 13. Write a note on economic losses due to fungi with a reference to animal diseases only.

#### Long Question No. 7

- 1. Define Fluid Mosaic Model & functions of plasma membrane.
- 2. Write a detailed note on Endoplasmic Reticulum.
- 3. Describe the structure and function of Mitochondria.
- 4. Describe the structure and functions of chloroplast.
- 5. What are plastids? Explain structure and function of chloroplasts.
- 6. Differentiate between Parokaryotic and Eukaroytic Cells
- 7. Describe nutrition in insectivores plants.
- 8. Explain digestion in cockroach. (Make its diagram)
- 9. Describe digestion cavity of man.
- 10. Explain digestion in human stomach.
- 11. Describe absorption of digested food in small intestine.

#### **Long Question No. 8**

- 1. Discuss the five kingdom system of classification proposed by Robert Whittaker.
- 2. Write a note on structure of viruses.
- 3. Describe Life cycle of a Bacteriophage.
- 4. Describe various steps of lytic cycle of phage virus (bacteriophage).
- 5. Sketch the infection cycle of HIV.







- 6. Define Hepatitis. Describe its causes and different types.
- 7. Describe influx of k+ ions hypothesis to explain the opening and closing of stomata.
- 8. Why transpiration is necessary evil?
- 9. Explain different functions of human blood.
- 10. Describe the composition of blood plasma.
- 11. Write a note on cardiac cycle.
- 12. Write down the main functions of lymphatic system in human body.

## **Long Question No. 9**

- 1. Discuss about bacterial cell wall.
- 2. Give nutrition in Bacteria.
- 3. Discuss growth and reproduction in bacteria.
- 4. Describe different physical and chemical methods to control bacteria.
- 5. Write a note on use and misuse of antibiotic.
- 6. Describe general characteristics and economic importance of Cyanobacteria.
- 7. Prove that water is a source of oxygen in photosynthesis.
- 8. Briefly describe the steps involved in the non-cyclic phosphorylation.
- 9. Discuss the non-cyclic phosphorylation with diagram.
- 10. What is Glycolysis? Sketch its various steps only. (No Description)
- 11. Explain krebs cycle. (Give only outline of kreb cycle )

