ZOOLOGY

(Original Solved Question Paper)



16135 120 MINUTES

1.	Speci know	- · ·	n that occurs without physical separation of members of the population is									
	A)	Allopatric speciation	B)	Symn	atric speciation	on						
	C)	Parapatric speciation			atric speciation		Ans. (B)					
	C)	Parapatric speciation	D)	Perip	atric speciatio) II	Ans. (b)					
2.	Which one of the following is a tubicolous worm?											
	A)	Nereis	B)		topterus							
	C)	Boniella	D)	Sagitt	ta		Ans. (B)					
3.	Indiv	iduals of a species can be iden		y								
	A)	Short Tandem Repeat analys	sis									
	B)	mtDNA sequence analysis										
	C)	cDNA sequence analysis										
	D)	mRNA sequence analysis					Ans. (A)					
4.	In mi	In mitosis separation and pole ward migration of sister chromatids are seen in										
	A)	Anaphase	B)		netaphase							
	C)	Prophase	D)	Telop	hase		Ans. (A)					
_	·						Ans. (A)					
5.		rossing over of chromosomes	_		•	luring						
	A)	Telophase Metaphase	B) D)	Lepto Pachy								
	C)	Wietaphase	D)	Pacify	ytene		Ans. (D)					
6.	_	brush chromosomes are active	-	lved in								
	A)	Synthesis of RNA and prote	ins									
	B)	Synthesis of carbohydrates										
		C) Synthesis of lipids										
	D)	Synthesis of cholesterol					Ans. (A)					
7.	Haemoglobin-S is an example for											
	A)	Chromosomal aberration.										
	B)	Expression of a polycistronic	c gene	with a s	ingle ORF.							
	C)	Overlapping genes.										
	D)	Single nucleotide polymorph	nism.				Ans. (D)					
8.	Δ nt hr	ax is a serious infectious disea	ice calls	ed by								
0.	A)	Lenti viruses	B)		-positive bact	teria						
	C)	Gram-negative bacteria	D)		viruses	ioria						
	C)	Gram negative oucteria	D)	Retro	VII USCS		Ans. (B)					
9.		aryotype of Turner syndrome		C'	44.370	Б,	44.370					
	A)	44+XXY B) 44+X	Y	C)	44+XO	D)	44+YO					
10.	In a d	lihybrid cross the phenotypic ra	atio wil	l be			Ans. (C)					
- •	A)	2:1	B)	3:1								
	C)	9:3:3:1	D)	1:1:1:	:1		4 (0)					
	,		,				Ans. (C)					

11.12.	A) B) C) D)	chromosomal c Prokaryotes al Prokaryotes a Prokaryotes, e Eukaryotes ald	lone nd euka eukaryot one	ryote m te mitoc	itochon chondria	idria a and pl		ed with chi	ronic	Ans. (C)
	myelog A) B) C) D)	Chromosome Chromosome Chromosome Chromosome	9 and c 9 and c 5 and c	hromos hromos hromos	ome 17 ome 14 ome 17		iprocal trans	location b	etweer	Ans. (D)
13.	Pleiotr A) B) C) D)	Orphan genes Genes which a organisms. Jumping gene another. Those which a different times	are high s that an are expr	aly spectore easily ressed in	ific and y transpo	conservosed from	wed across a	large num	o	Ans. (D)
14.	 The concept of DNA barcoding for molecular taxonomy of eukaryotes depends of A) Microarray analysis of tagged genomic DNA sequences. B) Analyses of mitochondrial cytochrome oxidase gene sequences. C) RT-PCR and sequence analyses of siRNA. D) Analyses of sequences of satellite chromosomes 							on Ans. (B)		
15.	The siz A) C)	ze of human mi 16569 bp 18323 bp	itochono	drial DN	NA is B) D)	17569 19323	-			Ans. (A)
16.	The ter A) B) C) D)	rm 'Khorana To Sequencing of Invitro synthe Sequencing of Invitro synthe	f RNA t sis of R f amino	emplate NA ten -acids.	es. nplates.		ntion for the			Ans. (B)
17.	The av A)	rerage sediment 60 S	tation va B)	alue of 65 S	eukaryo	otic ribo C)	somes is 70 S	D)	80 S	
18.	Which A) C)	one of the following Messenger RN Ribosomal RN	NA	RNA is	encased B) D)		er RNA	!?		Ans. (D)
19.	Antipa A)	rallel intramole RNA	ecular h B)	airpin lo DNA	oops are	e charac C)	eteristic of C-DNA	D)	B-Dì	NA
20.	The ur A)	nit of DNA spec Muton	cifying a	a single Cistro		ptide cł C)	nain Intron	D)	Reco	Ans. (A) n Ans. (B)

21.		h of the following	_		ination	codon?							
	A)	UGG	B)	UAA		C)	UGA	D)	UAG	Ans. A)			
22.	The n	umber of protei	in codin	g genes	in hun	nan mito	chondrion	is		ĺ			
,	A)	13	B)	24		C)	26	D)	37	Ans. (A			
23.	In a p	opulation of rab	bits in	Hardy-\	Veinbe	rg equili	ibrium, the	dominant a	allele fo	or			
		fur colour is B for black and the recessive allele is b for white. If 16% of the population is homozygous recessive, what will be the percent allelic frequency of											
			ygous re	ecessive	, what '	will be th	he percent	allelic frequ	uency c	of			
	A)	nd Bb? 16 and 68.			B)	36 and	Ι / Ω						
	C)	48 and 36.			D)	84 and				Ans. (B)			
	<i>C)</i>	To una 50.			D)	o i dila	. 10.			Alis. (D)			
24.		The evidence for endosymbiotic theory of the origin of mitochondria is supported by											
	1.	The presence	of circu	ılar DN	A.								
	2.	2. The fact that the genetic code of mitochondria DNA is the same as in all											
	3.	genomic DNA			milar t	a that at	- neoleografi	200					
	3.	The presence	01 11008	somes si	IIIIIai i	o mai oi	ргокатуот	es.					
	A)	1, 2 and 3.			B)	1 and 3	3 only						
	C)	2 and 3 only			D)	1 and 2				Ana (P)			
										Ans. (B)			
25.		uman haploid g		consists			091 DNIA						
	A)	$3.3 \times 10^9 \text{ bpD}$ $0.33 \times 10^9 \text{ bp }$			B)		0 ⁹ bpDNA 10 ⁹ bp DN						
	C)	0.33 X10 Up 1	DNA		D)	0.00 X	10 UP DN	A		Ans. (A)			
26.	The consensus signal sequence required both for cleavage and for polyadenylation												
	of most of the mRNA of higher eukaryotes is												
	A)	AAUAAA			B)	AACA							
	C)	AACCGU			D)	AACC	CUU		4	Ans. A)			
27.	In a DNA sequence analysis of the genome of an organism, the quantity of												
21.	thymine was estimated to be 30%. Then the percentages of pyrimidines and												
	cytosine will be												
	A)	20% and 50%			B)		nd 20%						
	C)	50% and 20%	0		D)	70% a	nd 50%		A	lns. (C)			
28.	The f	irst sonotion llv	on ain oo	rad nrae	luat vyh	ioh moa	anneavad	for alinical	in				
20.	huma	irst genetically ons is:	engmee	rea proc	iuci wi	iicii was	approved	ioi ciiiicai	use III				
	A)	Adenine de-a	minase.		B)	Blood	clotting fa	ctor VIII.					
	C)	Humulin.			Ď)		otropin			Ans. (C)			
• •													
29.		melogenin marl		sed in	D)	C	1:	.:_					
	A) C)	Gender diagn AML diagnos			B) D)		na diagnos diagnosis	S1S		A (A)			
	C)	AMIL diagnos	515		D)	CIVIL	uiagiiosis			Ans. (A)			
30.	Rho f	actor is required	d for the	e termin	ation o	f							
	A)	Replication			B)	Transc	cription						
	C)	Translation			D)	Transv	ersion			Ans. (B)			

31.	which it is associated". Which among the following arguments can be sustained as the most probable explanation for this? 1. Absence of an upstream promoter. 2. Post-transcriptional gene regulation by RNA interference. 3. Presence of a homologous dominant gene. 4. Presence of introns.							
	A)	1 and 2 only	B)	2 and 3 only				
	C)	1, 2 and 3 only	D)	4 only	Ans. (C)			
32.	nucle	tein with 306 amino acids wa otides as intron sequences. The ximately:	e lengtl					
	A)	1278 nucleotides.	B)	1038 nucleotides.				
	C)	222 nucleotides.	D)	426 nucleotides	Ans. (B)			
33.	Pulsed A) B) C) D)	d-field gel electrophoresis is u High molecular weight DNA Low molecular weight DNA Supercoiled DNA Transfer RNA	A	separate	Ans. (A)			
	D)	Trunster ICIVI			Ans. (A)			
34.		h one of the following is used		•	otic cells?			
	A)	Chloramphenicol	B)	Erythromycin				
	C)	Tetracyclin	D)	Hygromycin	Ans. (A)			
35.		protein coupled signalling pat tor is triggered by: Attachment of the ligand to Attachment of the G-protein Attachment of GTP to the re Attachment of Na+/K+ ions	the recent to the eceptor.	eptor. receptor.	e of the Ans. (A)			
36.	Oligo	-dT cellulose columns are use	ed to ser	parate				
	A)	tRNA	B) 1	mRNA				
	C)	rRNA	D)	Micro RNA	Ans. (B)			
37.	Whic	h of the following statement is	s correc	t?				
	A)	An enhancer that promotes 5' to the transcription start s	the tran		invariably at			
	B)	An enhancer that promotes 3' to the transcription start s		scription of a gene is seen	invariably at			
	C)	An enhancer that promotes intergenic region of the gen	the tran	scription of a gene is seen	invariably at			
	D)	An enhancer that promotes 3' region of the gene.		scription of a gene is seen	either at 5' or			

Ans. (D)

38.	38. Induced mutations in Drosophila have revealed the presence of genes that influence embryonic development. A set of such genes which determine the relative position of anatomical structures along the major body axis during development is						
	A)	Let 7	B)	Son-of-seven-less (SOS)			
	C)	Hox	D)	TATA box			
	,		,		Ans. (C)		
39.	Whic	h of the following has sticky	ends tha	t enable efficient recombina	tion?		
	A)	Plasmids	B)	Cosmids			
	C)	Phagemids	D)	Short Tandem Repeats.			
	- /		,		Ans. (B)		
40.	Choo	se the correct match:			11,100 (2)		
	1.	Ligases	a.	Ti plasmid			
	2.	Molecular scissors	b.	cDNA			
	3.	Shuttle vector	c.	BAC			
	4.	Reverse transcriptase	d.	RFLP			
		reverse transcriptuse	a.	Id Ei			
	A)	1-a; 2-b; 3-c; 4-d	B)	1-b; 2-c; 3-a; 4-d			
	C)	1-c; 2-d; 3-a; 4-b	D)	1-c; 2-a; 3-d; 4-b	A === (C)		
	C)	1 c, 2 d, 3 d, 1 o	D)	1 0, 2 u, 3 u, 1 0	Ans. (C)		
41.	finger	h of the following is/are not rprinting?			NA		
	1.VN	TRs 2.RFLP 3.B	lood grou	ıp 4.Q-PCR			
	A)	1, 2 and 3 only	B)	3 and 4 only			
	C)	4 only	D)	1 and 2 only	Ans. (C)		
42.	From acid.	the following, identify the p	person(s)	credited with the discovery	of nucleic		
	A)	Avery, MacLeod and McC	Carty.				
	B)	Erwin Chargaff.					
	C)	Frederick Meischner.					
	D)	James Watson, Maurice W	/ilkins an	d Francis Crick	. (5)		
	ĺ				Ans. (C)		
43.		Every sixth position over a Every seventh position ov	nent and a distance a distance er a dista	=	ne residues at s. rns.		
	,	, , ,			Ans. (C)		
44.	Hunti	ngton's disease is caused by	<i>'</i>	repeat expansion on the gen	e coding for		
		rotein HTT.			C		
	A)	Dinucleotide	B)	Trinucleotide			
	C)	Tetranucleotide	D)	Pentanucleotide	(D)		
	٠,		-,		Ans. (B)		
45.	In aga	arose gel electrophoresis of l	RNA form	namide is used as a			
	A)	RNase inhibitor	B)	RNA hydrolyzing agent			
	C)	RNA stabilizing agent	D)	RNA denaturing agent			
	C_j	10.171 stabilizing agent	ט)	10171 denaturing agent	Ana (D)		
					/1 2/2 C		

46. During electrophoretic separation of proteins strong detergents like SDS is added										
	to the proteins A) To convert all portides to a uniform charge									
	A)									
	B)									
	C)	To convert all peptides to a s		onfiguration						
	D)	To enhance the staining of pr	oteins		Ans. (A)					
47.	Which	n one of the following enzyme	is used	ž –						
	A)	DNA polymerase	B)	Polynucleotide kinase						
	C)	Exonuclease	D)	RNA polymerase	Ans. (A)					
48.	Which	n of the following experiment(s	s) prove	ed that both DNA and RNA	A can					
	function	on as genomic material?								
	1.	Griffith's experiment.								
	2.	Hershey and Chase experime	nt.							
	3.	Beadle and Tatum experimen	ıt.							
	4.	Conrat and Singer experimen								
	A)	1 and 3 only	B)	2 and 4 only						
	C)	1, 2 and 4 only	D)	3 and 4 only	Ans. (B)					
	,	•	ĺ							
49.	The 5	'and 3' ends of DNA indicate t	he posi		the					
	A)	Purine ring	B)	Pyrimidine ring						
	C)	Deoxyribose sugar molecule	D)	Imidazole ring	Ans. (C)					
50.	Cytos	ine to Thymine transition takes	place	by consecutive						
	A)	Methylation and deamination	1							
	B)	Methylation and amination								
	C)	Methylation and decarboxyla	tion							
	D)	Deamination and decarboxyl			4 (4)					
	,				Ans. (A)					
51.		esolving power of a light micro	-	-						
	A)	Increasing the wave length of								
	B)	Decreasing the wave length of		_						
	C)	Decreasing the refractive ind								
	D)	Decreasing the numerical apo	erture o	f the objective lens	4 (B)					
	TT1			DD 200	Ans. (B)					
52.		electable markers used in the p	lasmid	pBR322 are						
	A)	Ampicillin and Kanamycin								
	B)	Ampicillin and Tetracyclin								
	C)	Chloramphenicol and erythro								
	D)	Chloramphenicol and Tetrac	yclin		Ans. (B)					
52	The e	nzuma usad for 5° and labaling	ofDM	A is	(-)					
53.		nzyme used for 5' end labeling			orogo					
	A)	Polynucleotide kinase	B)	Klenow fragment polymo	ciase					
	C)	DNA polymerase	D)	DNase I	Ans. (A)					

54.		ommon baker's yeast, Sacchar	-	_	oid state contains
	A) C)	4 chromosomes 16 chromosomes	B) D)	8 chromosomes 32 chromosomes	Ans. (C)
55.	The e	nzyme which catalyze the diss	ociation	of carbonic acid is	, ,
55.	A)	Decarboxylase	B)	Carbonic anhydrase	
	C)	Deaminase	D)	Carboxylase	Ans. (B)
56.	In acid	dic condition oxygen dissociat	es more	e readily from haemog	lobin, which is
	called				, , , , , , , , , , , , , , , , , , , ,
	A)	Bohr effect	B)	Chloride shift	
	C)	Altitude sickness	D)	Asphyxia	Ans. (A)
57.	The ca	ardiac muscles are innervated	by the		12.11. (12)
	A)	Vagus	B)	Hypoglossal	
	C)	Abducens	Ď)	Trigeminal	Ans. (A)
58.	The lo	oop of Henle is highly specialis	sed for		
	A)	Urine dilution			
	B)	Absorption of glucose			
	C)	Urine concentration			
	D)	Absorption of vitamins			Ans. (C)
59.	Gama	aminobutyric acid is an			
	A)	Excitatory neurotransmitter			
	B)	Inhibitory neurotransmitter			
	C)	Non-functional neurotransm	itter		
	D)	None of these			Ans. (B)
60.		ons connect			
	A)	Muscle to bone	B)	Muscle to muscle	
	C)	Muscle to nerve	D)	Bone to bone	Ans. (A)
61.		rgan of Corti is formed of			
		Four rows of hair cells			
	B)	Tympanum			
	C)	Tympanic cavity and Eustac	hian tub	oe e	
	D)	Malleus, incus and stapes			Ans. (A)
62.		nalarial drug, Quinine is produ			
	A)	Aconite plant	B)	Cinchona plant	
	C)	Eucalyptus plant	D)	Tectonagrandis	Ans. (B)
63.		n one of the following is an ess			
	A)	Alanine	B)	Aspartic acid	
	C)	Threonine	D)	Tryptophan	Ans. (D)

64.	The f A) B)	,									
	C)	Transferring them to oxygen molecules.	n and re	esult in the formation of	f carbon-di-oxide						
	D)	Super-oxide dismutase enzy	me.		Ans. (B)						
65.	The h	normone that promotes the upt simultaneous elimination of			in the kidneys						
	A)	Aldosterone.	B)	Parathormone.							
	C)	Renin.	D)	Vasopressin.	Ans. (A)						
66.	Whic	h one of the following is not a	colliga	ative property of solutio	ons?						
	A)	Elevation of boiling point	B)	Depression in freezing	ng point						
	C)	Osmotic pressure	D)	Tyndal effect							
					Ans. (D)						
67.	The d	leamination of aspartic acid yi	elds								
	A)	Acetoacetic acid	B)	α- ketoglutaric acid							
	C)	Oxaloacetic acid	D)	Pyruvic acid	Ans. (C)						
68.	-	ratory chain in eukaryotes is l		in the							
	A)	Inner mitochondrial membra									
	B)	Outer mitochondrial membra	ane								
	C)	Plasma membrane									
	D)	Endoplasmic reticulum			Ans. (A)						
69.	Which is the most common neurotransmitter in the brain?										
	A)	Aspartate	B)	Choline esterase							
	C)	Glutamate	D)	Gama amino butyric	acid (GABA) Ans. (C)						
70.		Sickle cell anemia occurs as a result of a mutation in the beta chain of the globin gene, resulting in a substitution of the amino acid									
	A)	Alanine for glutamine		Glutamate for alanin	۵						
	C)	Glutamate for Valine	B) D)	Valine for Glutamate							
	C)	Glutalilate for Vallie	D)								
71.	Histo	nes are			Ans. (D)						
	A)	Basic proteins	B)	Neutral proteins							
	C)	Acidic proteins	D)	None of the above	Ans. (A)						
72.	What	is the concentration of H+ in	a soluti	ion of 0.1 M NaOH?							
	A)	$10^{-1}M$	B)	10^{-13} M							
	C)	$10^{-14} \mathrm{M}$	D)	None of the above	Ans. (B)						
73.		ydrolysis of alpha-linked poly	saccha	rides such as starch and							
	_	ne α-amylase yield									
	A)	Glucose and maltose	B)	Glucose and fructose							
	C)	Glucose and mannose	D)	Glucose and galactos							
					Ans. (A)						

74.	Adeny	ylyl cyclase catalyzes the con-	version	of ATP to								
	A)	Adenine sulphate	B)	Cyclic AMP								
	C)	Inositol phosphate	D)	Cyclic GMP								
		• •	ĺ	Ans. (B)								
75.		`	ar weig	ght of NaOH is 40) is prepared by								
	dissol	_										
	A)	0.04 gmNaOH in 100 ml	B)	0.1gmNaOH in 100 ml								
	C)	0.4 gmNaOH in 100 ml	D)	4.0gmNaOH in 100 ml								
				Ans. (C)								
76.	In Mic	chaelis-Menten equation, K _m	is the co	oncentration of substrates when the								
	reaction	on reaches half of V_{max} . Acco	rdingly	a small K _m indicates								
	A)	High affinity with the substr	rate sin	ce it means the reaction can reach half								
		of V _{max} in a small number o	f substi	rate concentration.								
	B)											
		of V _{max} in a small number o	f substr	rate concentration.								
	C) Low affinity with the substrate since it means the reaction can reach V_{max}											
		in a large number of substrate concentration.										
	D)	Low affinity with the substr	ate sinc	ce it means the reaction can reach V_{max}								
		in a small number of substra	ate cond									
				Ans. (A)								
77.	Pasteu	r effect explains										
	A)	Production of ATP in the ele	ectron t	transport chain.								
	B)	Production of ATP through	anaerol	bic glycolysis.								
	C)	Technique of sterilisation of	f milk b	by rapid heating followed by snap								
		cooling.										
	D)	Swan necked experiment an	d abiog	genesis Ans. (B)								
78.		Which one of the following molecule is phosphagen in vertebrates?										
	A)	Glyceraldehyde-3-phosphat	e									
	B)	Creatine phosphate										
	C)	Glucose phosphate										
	D)	Tyrosine phosphate		Ans. (B)								
70	C 1	64 1 1 : 4 :		711.6. (D)								
79.		m of Aschelminthes is	D)	D 1 1								
		Eucoelom	B)	Pseudocoel								
	C)	Haemocoel	D)	Enterocoel								
0.0	a :	01:1:		Ans. (B)								
80.	-	of birds is used for	D)									
	A)	Respiration	B)	Excretion and osmoregulation								
	C)	Sound production	D)	Digestion								
0.4				Ans. (C)								
81.	-	tonuria is characterized by the		nulation of								
	A)	Phenyl alanine and its deriv	atives									
	B)	Homogentisic acid										
	C)	Haemoglobin and other pign	ments									
	D)	Melanin		Ans. (B)								
				лю. (<i>D)</i>								

82.	Which	one of the following statement regarding pentose phosphate pathway is not							
	A)	The pathway can account for Ribose-5-phosphate.	the cor	nversion of glucose -6-ph	osphate to				
	B)	The pathway produces NAD	PH.						
	C)	The pathway does not genera							
	D)	The pathway has an oxidativ	e phase	, which is reversible.	Ans. (D)				
83.	T-cells	s are released from			Alis. (D)				
05.	A)	Thyroid	B)	Tendon					
	C)	Thymus	D)	Tympanum					
					Ans. (C)				
84.		ogenic hearts,	4 1 -	:141:14	:4				
	1. 2.	Acetylcholine inhibits heart l Acetylcholine accelerates hea							
	۷.	Acceptationne acceptates no	art ocat	white adrenamic minores	16.				
	A)	Acetylcholine and adrenaline	do not	affect heartbeat.					
	B)	Both statements are false.							
	C)	Statement 1 is true, statemen							
	D)	Statement 1 is false, statement	nt 2 is ti	rue.	Ans. (C)				
85.	Which	among the following stateme	nt(s) is/	are true?					
00.	1.	The acetyl moiety in the acet	` /		y acid				
		catabolism.			•				
	2.	The co-enzyme in acetyl co-	enzyme	A is vitamin B3.					
	A)	Both statements are false.	B)	Both statements are true	·.				
	C)	Statement 1 only.	D)	Statement 2 only.	A (B)				
0.6	TT1	1 1 1			Ans. (B)				
86.	A)	al polio vaccine is A vaccine made by recombine	ant DN	A technology					
	B)	An attenuated, active, bacter							
	C)	An attenuated, active, viral v		iiio.					
	D)	An attenuated, passive, viral).					
					Ans. (C)				
87.	-	cemaker of the human heart is		A					
	A)	Sinoatrial node. Mitral valve.	B)	Atrioventricular node. Bundle of His.					
	C)	williai vaive.	D)	Dulidie of fils.	Ans. (A)				
88.	Functi	onal unit of muscle is called							
	A)	Sarcomere	B)	Branchioles					
	C)	Lamellae	D)	Shields					
00	TT.	1			Ans. (A)				
89.		1 eye lens is Spherical and can be moved.	forward	I					
	A) B)	Spherical and can be moved Biconvex and cannot be mov							
	C)	Spherical and cannot be mov							
D) Biconvex and can be moved forward Ans.									

Ans. (C)

90.	The an A) C)	nticoagulant pr Hemerythrin Hirudin	esent ir	n human	blood B) D)	is Hepa Thro		Ans	. (B)				
91.	Which	n one of the fol	lowing	stateme	nt rega	rding ca	arbamate pest						
	correct A)	et? They are irrev	versihle	inhihit	ors of a	cetylch	oline esterase						
	B)	They are este	rs of ca	ırbamic	acid	•		•					
	C) D)	They are mor					sphates.	Ans	. (A)				
	,	•					_		(12)				
92.		The tissue fixative Carnoy's solution is composed of A) Ethanol, chloroform and formaldehyde											
	B)	Ethanol, chlo	roform	and pic	ric acid	ĺ							
	C)	\mathbf{p}_{1}											
	D)	Emanoi, cino	10101111	and ion	iiiic aci	.u		Ans	. (C)				
93.		evelopment of		erior-po				ontrolled	by				
	A) C)	Segmentation Maternal effe	_	es	B) D)		eotic genes f these	Ans	. (D)				
	,							11113	. (D)				
94.	Torna A)	ria is the larva Limulus	of		B)	Metri	dium						
	C)	Balanoglossu	S		D)		dopleura	Ans.	(C)				
95.	Rlacti	ıla of frog is ca	lled										
93.	A)	Discoblastula			B)	Coelo	blastula						
	C)	Holoblastula			D)	Amp	hiblastula	Ans.	(B)				
96.	The p	ollen basket of	the for	aging w	orker b	ees is so	een on its						
	A)	Prothoracic le	egs		B)	Meso	thoracic legs						
	C)	Metathoracic	legs		D)	None	of the above	Ans.	(C)				
97.		h of the followi	ng is a	greenho	_								
	A)	Methane Carbon dioxi	d a		B)		us oxide						
	C)	Carbon dioxi	de		D)	All 0	f these	Ans. (I	O)				
98.		pressure is con		by	D)	TO I							
	A) C)	Adrenal gland Thymus Glan			B) D)	-	oid gland us gland						
	<i>C)</i>	Thymas Olan	ıu		D)	Corp	us giuria	Ans. (A	1)				
99.		ter pollution, in	dustrie	s are sai			G011#00G						
	A) C)	Line sources Area sources			B) D)		sources of these	4 (1	. \				
100	Tr1		1 54	.1.1.1	·	•		Ans. (I	3)				
100.	A)	as not associate CO ₂	ea with B)	global v	warmin	g is C)	SO_2	D)	Argon				
	,		,					-,		Ans. (D)			
101.	Ozone A)	e layer in the up HCl	pper atr B)	$\begin{array}{c} { m nospher} \ { m N}_2 \end{array}$	e is des	stroyed [C)	by CFC	D)	SO_2				
	11)	1101	5)	± 1/2		\sim		D)	502				

Ans. (D)

102.	earth's crust? A) Oxygen and Silicon B) Oxygen and Iron							
	C)	Mg and Iron		D)	Aluminium and Iron	Ans. (A)		
103.	Reaso	cion (A): Chloro n (R): These co n of the followir	mpounds cont		e ozone. orine, Bromine and Fluorine.			
	A) B) C) D)	, ,	(R) are true but (R) is false		the correct explanation of (A) not the correct explanation of (A)	Ans. (C)		
104.	The m	nain atmospheric	c layer near ea	rth is				
	A)	Troposphere		B)	Mesosphere			
	C)	Ionosphere		D)	Stratosphere	Ans. (A)		
105	Diatio		ماييا م					
105.	A)	environment in Producers	iciudes	B)	Consumers			
	C)	Decomposers		D)	All the above	Ans. (D)		
	- /	r				11113. (D)		
106.	The ca	ause of lung can	cer Mesothale	emia is				
	A)	Arsenic		B)	Asbestos			
	C)	Chromium		D)	Mercury	Ans. (B)		
107.	Which	one of the follo	owing is the c	orrect fo	ood chain?	(-)		
107.	A)		_		ymph -» Newt -» Grass Snake			
	B)				lewt -» Algae -> Grass Snake			
	C)				Nymph -> Daphnia -> Algae			
	D)	Newt -» Grass	Snake -» Dra	gon Fly	Nymph -» Algae -> Daphnia	Ans. (A)		
100	36.1			**		1		
108.		the items in Li below:	st - I with List	: - II and	I select the correct answer using co	des		
	List I		<u>List -</u>	II				
	a. CFO	\mathbb{C}	(i) Bhopal Ga		edy			
	b. CO	2	(ii) Global W	_				
	c. BO		(iii) Ozone de					
	d. MI	\mathbb{C}	(iv) Water po	ollution	Code			
	A)	a-iv, b-iii, c-	i d- ii	B)	a-i, b- ii, c- iii, d- iv			
	C)	a-iv, b-iii, c-		D)	a-iii, b- ii, c- iv, d- i	Ans. (D)		
100	TI 0"	1. 1 1	· c	ŕ	11	12 (2)		
109.		ve kingdom cla Carl Woese	ssification was		sed by Carolus Linnaeus			
	A) C)	Paul Hebert.		B) D)	Robert Whitaker.			
	\sim	i aui licocit.		יט	ROUGH WIIIIaku.	Ane (D)		

Ans. (B)

110.	Which A) C)	of the following analytical tec Coulometry Gas chromatography	chnique B) D)	is used to estimate Sodium? Flame Photometry HPLC	Ans. (B)		
111.	Algal (A)	bloom results in Global warming Eutrophication	B) D)	Salination Biomagnification	Ans. (C)		
112.	A high A) B) C) D)	Absence of microbial action Low level of microbial pollution					
113.	The ef A) B) C) D)	Energy releasing capacity Rate of deposition of the contaminant					
114.		perature at 98.6 degrees Fahre degrees Kelvin 37, 310 55, 328	nheit co B) D)	310, 37 328, 55	1S Ans. (A)		
115.	The in A) C)	fluence of the two bordering c Edge effect Interference	ommun B) D)	ities on each other is known as Competition None of the above	Ans. (A)		
116.		Animals with bilaterally symmetrical larvae and pentamerically symmetrical adults are seen in A) Coelenterates only. B) Fresh water echinoderms. C) Marine echinoderms.					
117.	Which among the following proceeds to G1 phase, then returns and remains permanently in G0 phase of the cell cycle? A) B lymphocytes. B) Hepatocytes C) Nerve cells. D) Reticulocytes.						
118.	The third cleavage in the embryogenesis of frog is A) Holoblastic, equatorial and results in the formation of eight identical blastomeres. B) Holoblastic, equatorial and results in the formation of four large and four small blastomeres. C) Holoblastic, latitudinal, and results in the formation of four large and four small blastomeres. D) Meroblastic, meridional and results in the formation of four small and four large blastomeres.						

119.	The	drones of the honey bee are			
	A)	Diploid	B)	Haploid	
	C)	Polyploid	D)	Aneuploid	Ans. (B)
120.	The	Ans. (D)			
	A)				
	B)				
	C)				
	D)	Ans. (C)			