Test Booklet No. \_\_\_\_\_ This booklet consists of 100 questions and \_\_ printed pages.

## **RGUCET/2025/34**



## RGUCET 2025 Common Entrance Test, 2025 MASTER OF SCIENCE IN ZOOLOGY

Full Marks:	ull Marks: 100										Tiı	me: 2	Hou	irs
Roll No.														
Day and Date of Examination:														
Signature of I	Signature of Invigilator(s)													
Signature of (	Candi	idate												_

General Instructions:

## PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.

- 1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.
- 2. Candidate must write his/her Roll Number on the space provided.
- 3. This Test Booklet contains 100 Multiple Choice Questions (MCQs) from the concerned subject. Each question carries 1 mark. There shall be negative marking of 0.25 against each wrong attempt.
- 4. Please check the Test Booklet to verify that the total pages and total number of questions contained in the test booklet are the same as those printed on the top of the first page. Also check whether the questions are in sequential order or not.
- 5. Candidates are not permitted to enter into the examination hall after the commencement of the entrance test or leave the examination hall before completion of Examination.
- 6. Making any identification mark in the OMR Answer Sheet or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.
- 7. Candidates shall maintain silence inside and outside the examination hall. If candidates are found violating the instructions mentioned herein or announced in the examination hall, they will be summarily disqualified from the entrance test.
- 8. In case of any dispute, the decision of the Entrance Test Committee shall be final and binding.
- 9. The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy

1		is given as $x^2$ -4=0. x=6 then the value of	2	itial	a) 10/3					
	a) 10/3	b) 4/3	c) 7/3	d) 13/3						
2	If $f(x) = x^2 + 3x + 3$	- 2, then what is the	value of f(2)?							
	a) 4	b) 12	c) 32	d) 20	b) 12					
3	What is the order	of the differential e	quation x <sup>2</sup> d <sup>2</sup> y/dx <sup>2</sup> -	+ 3 dy/dx + y = 0?	(b) 2					
	a) 1	b) 2	c) 3	d) 0						
4		Which of the following city is the host of World Audio Visual & Entertainment Summit (WAVES) 2025?								
	a) New Delhi	b) Chennai	c) Mumbai	d) Hyderabad	C) Mumbai					
5	Bandhavgarh Nat									
	a) Madhya Prades	sh b) Odisha	c) Karnataka	d) Tamil Nadu	a) Madhya Pradesh					
6	Ayushman Bhara	yushman Bharat Diwas is observed annually on:								
	a) April 29	b) April 30	c) May 1	d) May 1						
7	The European Re spotted in which									
	a) Uttarakhand	b) Uttar Pradesh	c) Himachal Pradesh	d) Punjab	c) Himachal Pradesh					
8	The Small Hive E for the first time i									
	a) West Bengal	b) Telangana	c) Odisha	d) Goa	A) West Bengal					
9	The Bamiyan Bud located in which d	ddhas were monume country?	ental statues of star	nding Buddhas						
	a) Afghanistan	b) Nepal	c) Bhutan	d) Myanmar	a) Afghanistan					
10	What is "Chlorpy	rifos" that was recen	ntly seen in news?	1						
	a) A type of Mineral	b) Pesticide	c) Traditional medicinal herb	d) Newly discovered species of Butterfly	b) Pesticide					

1	Which day is cele				
	a) April 26	b) April 27	c) April 28	d) April 29	b) April 27
2	$\triangle$ ABC is right-ang of AB.	gled at C. If $AC = 5$	cm and BC = $12$	cm, find the length	
	a)17cm	b)7cm	c)13 cm	d) None of these	c).13 cm
3	Fill in the blanks				
	The children	in the	field now.		
	a) has played	b) are playing	c) plays	d) will had played	b) are playing
4	Complete the state brackets.	ement by using the c	orrect form of the	e verb given in	
	At the end of Janu	ary next year, my fa	ther (r	etire).	
	a) retire	b)will be retire	c)will retired	d)will have retired	retire
5	Fill up the blanks				
	The train				
	a) has left	b) was left	c) had left	d) is left	c) had left
6	Fill up the blanks	with correct verb.			
	This road	to the post	office.		
	a) is leading	b) has lead	c) leads	d) lead	c) leads
7	Fill up the blanks	with correct verb.			
	The candidate		speaking for ten 1	ninutes.	
	a) had	b) had been	c) was	d) is	b) had been
8	Neeraj Chopra wo	on gold at the 2020 T	Cokyo Olympics i	n:	Answer
	a) Boying	d) Jodo			
	a) Boxing b) Chess		c) Javelin		(c)

19	Match the Padm	a awardee from A	Arunach	al with their co	ontributio	n.		
	A. JumdeYomg	gam Gamlin	i. Spor	rts				
	B. Anshu Jams			ritualism			Answer	
	C. Yeshe Dorje			cial Work				
	D. Guru Tulku	Rinpoche	Iv. Lit	erature and edu	ucation			
	a) A-iii, B-i, C-i ii	v, D- b) A-iii, E ii, D-iv	8-i, C-	c) A-iii, B-iv, C-i, D-ii	, d) A- iv, D	-ii, b-i, C- -iii	(a)	
20	The Dadasaheb	Phalke Awards w	ere intr	oduced in the			Answer	
	a) 1969	b) 1978		c) 1954	d) 19	985	(a)	
21	The functions of	f contractile vacue	ole of p	rotozoa is:			Answer	
	a) Respiration	b) Excretion	c) Osmoregulation d) Digestion			gestion	(c) Osmoregulation	
22	Which of the fol for more than or	llowing mammal ne month?	can sto	re sperm in fer	nale genita	al tract	Answer	
	a) Elephant	b) Bat platipus				bill	(b) Bat	
23	The pH of gastri	The pH of gastric juice in mammal is:						
	a) 1.0- 2.5 b) 3.0 - 4.5 c) 4.0 - 5.6 d) 6.0 - 7.0						a) 1.0 – 2.5	
24	Ornithorhynchu	<i>s anatinus</i> is:						
	a) An aves	b) A mammal		n aquatic	· · ·	es but do	b) A mammal	
27	and lay eggs	and lay eggs	mar	nmals	not lay e	ggs	and lay eggs	
25	A Raptor is a:							
	a) Reptile	b) Meat eating bird	mar	Ierbivours nmal	d) Noctu	rnal bird	b) Meat eating bird	
26	Aurelia is an org	ganism with body	plan of	f:				
	a) Asymmetrica	l b) Bilateral symmetrical		Radially mmetrical	d) Dors ventral symme	ly	c) Radially symmetrical	
27	The Singer and	Nicolson model	of plas	sma membran	e:			
	i. A Lipid ii. Membra iii. Membra iv. It consist Select the correct	a) i-True, ii-False, iii-True, iv-False						
		<b>T</b>						
	a) i-True, ii-False, iii- True, iv-False	b) i-True, ii-True, iii- False, iv-True,	ii-T	c) i-False, rue, iii-False, <sup>F</sup> alse	d) i- ii-False, iv-True	-False, iii-True,		

28	The properties o	f cell membrane i	s:							
	diffusi ii. Ionopl variou iii. Gluco transp iv. Cross endoc	<ul> <li>diffusion and active transport.</li> <li>ii. Ionophores are molecules that act as membrane shuttle for various ions.</li> <li>iii. Glucose molecules pass through membrane by active transport.</li> </ul>								
	a) i-False, ii-True, iii-True, iv-True	d) i- True, ii-True, iii- False, iv-True								
29		True, iv-False	iv-False							
	i. Hypot ii. Poster iii. Adenc iv. Adenc Select the correct	d) i-True, ii-False, iii-True, iv- False								
	a) i-True, ii-True, iii-	b) i- False, ii-False, iii-	c) i-False, ii-True, iii-True,	d) i- True, ii-False, iii- True,						
20		False, iv-True	iv- False	iv-False						
30	The compositioni.Mucinii.Muciniii.Muciniv.TrypsiSelect the correct	b i-False, ii-True, iii-False, iv- False								
	a) i-True, ii-False, iii- True, iv-False	b) i-False, ii-True, iii-False, iv-False	c) i-False, ii-True, iii- False, iv-True	d) i-False, ii-False, iii-True, iv-True						
31	Two statements a Justification (B). Assertion (A): Nu structure and fund									
	Justification (B):	Both the membran	e possesses similar	lipid bilayer						

	structure.								
	U U	bove statements, chons given below:	oose the correct ans	wer from the					
	a) A is not correct, B is true	b) B is not the justification of A	c) Both A and B is true	d) Both A and B is false	a) A is not correct, B is true				
32	Two statement Justification (I	s are given below, o 3).	one is Assertion (A	) and the other is					
	Assertion (A): 1	Eukaryotic DNA is a	a double helical coil	ed structure.	b)				
	In the light of a	<ul><li>Justification (B): Both the helix run antiparellel in direction.</li><li>In the light of above statements, choose the correct answer from the following options given below:</li></ul>							
	a) A is true, B is false								
33	Justification (A): ( Justification (A): ( Justification (B animal. In the light of a following optio		c) Both A and B are true						
	a) A is true, B is not true	b) A is true, B is not the justification	c) Both A and B are true	d) Both A and B are false					
34	Two statement Justification (I Assertion (A): 7 golgi body are s Justification (B In the light of a following optio	a) B is not the justification of A							
	a) B is not the justification of A	b) B is the true justification of A	c) A is not true , B is true	d) Both A and B are not true					

35	Two statemen Justification (	0	elow, or	ne is Assertio	n (A) a	nd the other is				
	Assertion (A):	Hydra and au	rellia bo	th are coelent	erates.		c) A is true, B is not true and B			
	Justification (E	B): Both contai	in polyp	oid and medu	sa stage	2.	is not justification of			
	In the light of a following optic			ose the correc	t answe	er from the	A			
	a) A is not true, B is true	b) Both A and B are true	true ar	true, B is not ad B is not cation of A		A is true , B is justification of				
36	Two statemen Justification (									
	Assertion (A): Justification (E colony respect	b) A is true, B is not the justification of A								
	In the light of a following optic	Α								
	a) Both A and B are not true	b) A is true, not the justification		c) A is not true, B is true		A is true , B is justification of				
37		Two statements are given below, one is Assertion (A) and the other is Justification (B).								
	Assertion (A): and exchange of Justification (E division only. In the light of a following option	b) A is not true, B is true								
	a) A is true, B is false	b) A is not true, B is true	not the	true, B is e cation of A	· ·	true, B is the cation of A				
38	Two statemen Justification (	A. Both A and								
	Assertion (A):	A. Both A and B are true								
	Justification (E	B): because, F(	) and F1	particle of m	itochon	drial membrane				

	is present in mit	ochondrial crista	e.						
	In the light of al following option		choose the correct a	nswer from the					
	A. Both A and B are true	B. A is true, B i not true justification	s C. A is not true is true	B D. Both A and are false	d B				
39			d with those colum en code on tempora		d) A-iii				
	A.Anapsida B. Synapsida C. Parapsida D. Diapsida	B-iv C-ii D-i							
	a) A-ii, B-iii, C-iv, D-i	b) A- iv, B-ii, C-i, D- iii	c)A –iv, B-i, C-iii, D-ii	d) A-iii, B-iv, C-ii, D-i	,				
40	Match the item the correct mat invertebrates A. Parenchymu B. Planula C. Sporocyst D. Trochophor	b) A-ii, B-iv, C-i, D-iii							
		b) A-ii, B-iv, C- i, D-iii	c) A-iii, B-iv, C-ii, D-i	d) A-iv, B-iii, C-ii, D-i					
41		Match the item of column-I and with those column –II and find out the correct match from the given code on endocrine cell types and its secretion							
	A. Juxtaglomer B. Granulosa c C. Zona glome D. Trophoblast	ells rulosa	i. Aldosterone ii. hCG iii. Estradiol-17β iv. Renin	G tradiol-17β					
	a) A-ii, B-iv, C-i, D-iii	b) A-iv, B-iii, C-i, D-i	c) A-iii, B-iv, C-ii, D-i	d) A-iv, B-i, C-ii, D-ii	i				

42	Match the item of correct match from name						a)
	Perossodactyla		Tach	yglossus acule	ata		A-iii, B-iv,
	Artiodactyla		Eleph	-			
	Monotremata			oceros		_	C-i, D-ii
	Proboscidia			k deer			
	a) A-iii, B-iv, C-i, D-ii	b) A- iii, B- i, C-iv, D-ii	i B-	c) A-iv, -i, C-ii, D-iii	d) A- B-iii, C-iv		
43	Match the item of correct match from			ose column –I	I and find o	ut the	
	A. Beta cells		i. Lys	sozyme			
	B. Mast cells		ii. Pa	ncreatic enzyn	ne		
	C. Paneth cells			istamine			
	D. Acinar cells		iv. Iı	nsulin			
	a) A-iv, B-ii, C-i, D-ii	b) A-iii, B-ii, C-iv, D-i	-	A-iv, B-iii, - i, D-ii	d) A- ii, B- iii, C- i	, D- iv	c) A-iv, B-iii, C- i, D-ii
44	Match the item of column-I and v correct match from the given cod A. Monocytes B. Schwan's cell C. Lympocytes D. Astrocytes			euronal cells rms the myelin ound densely s cus on neuronal ce ccentric bilobe		a) A-iv, B-i, C-ii, D-iii	
		b) A-iii, B-i, C-iv, D-ii		A-ii, iii, C-iv, D-i	d) A-iv, B C-i, D-ii	-iii,	
45	Match the item of correct match from	of column-I and v	with th	ose column –I	I and find o	ut the	
	A. FSH B. TRH C. Glucocortico D. Prolactin	<ul><li>i. Tropic hormone</li><li>ii. Steroid hormone</li><li>iii. Glycoprotein hormone</li><li>iv. hypothalamic hormone</li></ul>				c) A-iii, B-iv, C-ii, D-i	
	a) A-ii, B-iv, C-i, D-iii	b)A-iv, B-i C-i, D-ii	ii,	c) A-iii, B-iv, C-ii, D-i	d) A-ii C-iv, E		

46	Macrophage-like cell	Answer			
	a) Kupffer cells	b) Mesangial cells	c) Natural killer cells	d) Microglial cells	(a)

47	T- cell recognizes	:					Answer				
	a) Free antigen	b) Antige bound wi MHC		c) Antig bound CD8		d) Free antibody	(b)				
48	Which of the follo										
	B. IgM have 4 con C. Skin is part of	<ul><li>A. Graves disease is an autoimmune disease.</li><li>B. IgM have 4 constant regions.</li><li>C. Skin is part of adaptive immunity.</li><li>D. Karl Landsteiner discovered human blood group.</li></ul>									
	a) A, B and D										
49	<ul> <li>Assertion (A): Number of cases of many infectious diseases are going down.</li> <li>Justification (B): Effectiveness of vaccination is one of the causes of this.</li> <li>In the light of above statements, choose the correct answer from the following options given below:</li> </ul>						Answer				
	a) Both A and B a correct and B is th correct justification of A	ne are correc	et but B	B is	A is rect but s not rect	d) A is not correct but B is correct	(a)				
50	Matching the follo A. Alveolar mac B. Histiocytes C. Kupffer cells D. Mesangial cel	rophages	ii. iii.	i. Liver ii. Lung iii. Kidney iv. Connective tissue			Answer				
	a) A-iv, B-i, C-ii, iii	i, D-iii		iii, D-i	B-iv, C-	d) A-ii, B-i, C-iv, D-iii	(b)				
51	Which of the follo	owing techniqu	ie are usi	ually use	ed to dete	et HIV?	Answer				
	a)Western blot	b) ELISA		c) Dot	blot	d) RIA	(b)				
52	Which of the follo A. Machine used B. PCR is used fo C. Annealing in P D. Taq DNA poly	Answer									
	a) Both A and D	b) Both A and C		Both and B		d) Both B and C	(c)				

53	Assertion (A): E. co	<i>li</i> is usually u	used for	gene cloning	g.		
	Justification (B): E.	<i>coli</i> divides i	in about	t 20 minutes.			
	In the light of the	ve statement	ta altaa	a the com	ant ar	annan fuana tha	Answer
	In the light of abo following options gi		ts, choo	ose the corre	ect ai	iswer from the	
	a) Both A and B are	b)Both A a		c) A is		d) A is not	
	correct and B is the correct justification	are correct not the correct		correct b is not cor		correct but B is correct	(a)
	of A	justificatio		15 1100 001	1001	13 concet	
54	Match the following						
	A. Col Plasmid						
	B.Ti plasmids		Answer				
	C. RP4			ectable mark			
	D. Antibiotic resist	ance	iv. Co	des for colici	ns		
	a) A-i, B-iii, C-iv,	(c)					
55	D-ii Which of the follow						
	<ul> <li>A. Klenow fragment</li> <li>B. Bal31 is an exam</li> <li>C. BamH1 is an exa</li> <li>D. Polynucleotide ki</li> <li>DNA.</li> </ul>	Answer					
	a) Both A and B	b) Both A and C		c) Both C and D		d) All A, B, C and D	(c)
56	Which of the follow		or visua		NA?		Answer
	a) EtBr	b) Syber g	green	c) MgCl <sub>2</sub>		d) Both a and b	(d)
57	Which of the follow	ing is require	ed prope	er function of	f DNA	A polymerase?	Answer
	a) Mg <sup>2+</sup>	b) K <sup>+</sup>		c) Na <sup>+</sup>		d) He	(a)
58	The movement of w	ater through	aquapo	rins is an exa	mple	of:	Answer
	Facilitated diffusion	b) Active transport	(	c) Osmosis	d	) Endocytosis	a
59	Identify the correct of A. Cholesterol i high tempera B. Gap junction in plant cells C. Cilia and flag D. A cell placed	Answer					

	a) A and B		b) B and C	c)	C and D	d) A a	and D	Α
60	<b>Assertion</b> (A): DNA polymerase catalyzes transcription in eukaryotic cells.				lkaryotic			
	<b>Justification</b> ( <b>B</b> DNA template.	Answer						
	In the light of all options given be							
	a) Both A and B		b) Both A and	B are	c) A is true	, d)	A is false,	
	are true, and B i the correct justification of A		true, but B is n correct justific of A.		but B is false.	bu	t B is true.	d
61	Which organelle animal cells?			l in β-o	oxidation of t	fatty ac	ids in	Answer
	a) Mitochondria	L	b) Lysosomes	c) G	olgi bodies	d) Pe	roxisomes	Α
62	Phospholipids in	n mer	embranes often undergo:				Answer	
	a) Passive diffusion		b) Flip-flop movement with flippases	,	tational ion only	d) Gly	cosylation	b
63	Which histone r		A A	ciated v	with active tr	anscrip	tion?	Answer
	a) Methylation of H5K9	b) A of H	Acetylation 13	c) Dea of H	cetylation	d) Phospl of H24	horylation A	b
64	Assertion (A): ' eukaryotic cilia			nt of m	icrotubules i	s chara	cteristic of	
	<b>Justification (B):</b> Dynein arms are responsible for the bending movement of cilia and flagella.							Answer
	In the light of above statements, choose the correct answer from the options given below:							
	a) Both A and B true, and B is th correct justificat of A	e	b) Both A an are true, but not the corre justification	B is ct	c) A is true, but B is false.	d) A i B is t	is false, but rue.	b
65	Which of the fo	llowi	5			ntion in	the ER?	Answer
	a) TATA		b) KDEL	c)	NLS	d) PT	CS1	b

66	Identify the true sta							
	<ul><li>A.Mitochondrial DNA is inherited from both parents.</li><li>B. Glycolysis occurs in the mitochondria.</li><li>C. All cells does not contain the same number of mitochondria.</li><li>D. Prokaryotic cells possess membrane-bound organelles like mitochondria.</li></ul>						Answer	
	A and B	b) C		c) A	(	d) C and D	c	
67	The resting membrane potential is primarily maintained by:						Answer	
	a) Na <sup>+</sup> /K <sup>+</sup> ATPase	b) Ca <sup>2+</sup> channels		c ) Proton pumps	(	d) Endocytosis	a	
68	Assertion (A): Juv regulate gene expr	ession directly	/.					
	Justification (B) : T hormones are stero In the light of abov options given belo	Answer						
	a) A is correct but is not correct justification	B are co	rrect	c) A is wro but B is correct	ong	d) Both are wrong	(d)	
69	Type Questions here for matchinApis ceranaApis floreaBombyx moriAntheraea assamensis			i. Open nester ii. Cavity nester iii. Lauraceae iv. Moraceae			Answer	
-	a) A-i, B-ii, C-iii, D-iv	b) A-ii, 1 iv,D-iii	B-i, C-	c) A-iii, B- C-i,D-ii	-iv,	d) A-iv, B-iii, C-ii,D-i	(b)	
70	Light production in			eed:			Answer	
	a)Luciferin	b) Lucifer	ase	c)Lac		d)Oxygen	(c)	
71	The insect eggs she	ow:					Answer	
	a) Holoblastic cleavage	b) Radial cleavage		c) Syncytial cleavage	_	d) Spiral cleavage	(c)	
72	The number of legs of an spiders is				Answer			
	a) two	b) four	c)	six	d) (	eight	(d)	
73	Which of the follo	Which of the following is not a characteristic of honeybee?						
	a) Three sub- marginal cells on the forewingb) Middle submarginal cell like beak of a bird		ba	-		All females are loid	(c)	

74	Type Questions he						
	A. Acetylcholine		i Ne	eurotransmitte			
	B. Acetylcholinesterase			Hormone	-		Answer
	•			Enzyme			Allswei
	D. Sericin		iv. Peptide				
	D. Sellelli						
	a) A-i, B-ii, C-	b) A-ii, B-i, C-	c)	A-i, B-iii,	d)	A-i, B-iv C-iii,	
	iii, D-iv	iii, D-iv		-ii, D-iv	D-		(c)
75	Find out the false	statement:					Answer
	a) Male	b) Males can	c)	Males may	d) [	Haploid male is	(a)
	honeybees are	also be diploid		diploid if		evolutionary	
	always haploid	but diploid		ey are		chanism for gene	
		males are		omozygous		ration	
		cannibalized		r CSD gene	1110	iution	
76	Leptocorisa orato		10	<u> </u>			Answer
	a) Maize	b) Pea	c)	Rice	d)S	Stored grains	(c)
77	Corbiculate leg of	honeybees is pr	esen	t on:	I		Answer
	a)Coxa of	b)Basitarsus of	-	Femur of	d) Tibia of the hindleg		
	foreleg	the foreleg	hi	nd leg			(d)
78	Which of the follo reticulum?	Answer					
	a)Lipid synthesis	b)Detoxificati	tion c)Protein modification			d)Calcium	Answer c)
		,					Protein
						C	modification
79	Which of the follo						
	<ul><li>A. Primary productivity is always higher in deserts than in tropical forests.</li><li>B. Bioaccumulation refers to the build-up of toxins in an organism over time.</li><li>C. Commensalism is a type of positive interaction</li><li>D. Ozone depletion is mainly caused by CFCs.</li></ul>						Answer
	a) A and B	b) A only		c) A and C		d) A and D	b) A only
80	Which part of the brain regulates temperature?						Answer
	a) Medulla	b) Cerebrum	c) H	lypothalamus	Ċ	l) Cerebellum	Answer: c
81	Which of the follo						
	A. Parthenogenesi	s is a type of as	2112	l reproduction			
	B. Primary succes C. RNA polymera	Answer					
	D. Blood pressure is higher in veins than arteries.						

	a) A and B	b) A and C	c)	C and D	d	) B ar	nd D	c) C and D
82 *	Match the follow	ing pairs						
	A. Ecology			iotic and b		teract	ion	Answe
	B. Neuron			hotosynthe				
	C. Chloroplast			npulse cor		1		
	D. Ribosome			rotein synt				
	a)A-i, B-iii, C- ii, D-iv	b)A-ii, B-i, C-iv, D-iii	c)A D-	A-i, B-iii, ( iv	C-ii,   d)   iv		, B-i, C-ii, D	D- a)A-i, B-iii, C- ii, D-iv
	Which organelle	is known as tl	he "po	werhouse	of the ce	ell"?		Answe
83								
	a) Ribosome	b)Endopla	ismic	c)Mitoch	ondria	· · · ·	Golgi	
		reticulum				ap	paratus	c)Mitochondri
0.4	Which of the foll	owing statem	ent is/a	are false?				
84	A DNA raplicati	on occurs in (	C1 nho	6 <b>0</b>				
	A. DNA replicati B. Sensory neuro							Answe
	C. Coral bleachin				uro			Allswe
	D. Platelets help		cicasci	i temperat	uic.			
	D. I laterets help	in clotting.						
	a) A and D	b) A and C	7	c) A only	7	d)	C only	c) A only
							-	
0.5								
85	Match the following pairs							
	A. Kidney		piration	Answe				
				rculation				
	C. Lungs		cretion					
	D. Liver	iv. Detoxification						
	a) A-iii, B-ii, C-i,	, .	-i, C-	c) A-iv, I	3-iii, C-	-	A-iii, B-iv, C	
	D-iv	iv, D-iii		ii, D-i		i, I	D-ii	i, D-iv
86	Which of the following statement is/are true?							
	A. Pulmonary ve							
	B. Antibodies are	Answe						
	C. Diaphragm is							
	D. Enzymes are p							
	a) T, F, T, T	b) T, T, F, F	7	c) F, F, T	Т	d) [	F, T, F, F	A
87	Which biome is characterized by permafrost?						Answe	
	a) Desert	b) Tropi rainfore		c) Tu	ndra	Ċ	l) Grassland	c) Tundra
88	Which of the following is not true about nucleotides?							Enzymatic molecules
	a) Energy rich b) Monomeric c) Ubiquitous d) Enzymatic						d	
		units		ibstances		mole	•	u u
89	Which of the foll							Ethidium
07	fragments during			· provide t	o une se	Pulat	UN UN DINA	bromide
	ing ments during	encertophotes						oronnuc

	a) Size	b) Matrix density	c) Chargaff's rule	d) Ethidium bromide	d
90	Identify the con	bronnide	A-ii, B-i, C-iv, D-iii		
	A. Lysosome		i. Cyt C		
	B. Mitochond	ria	ii. Autophagy		
	C. Golgi Com		iii. Translation		
	D. Endoplasm				
	a) A-ii, B-i, C- iv, D-iii	b) A-iii, B-i, C- iv, D-ii	c) A-i, B-iii, C- iv, D-iv	d) A-iv, B-i, C-ii, D-iii	a
91			contribute to the stat		Hydrophobic interactions
	a) Hydrogen bonding	b)Hydrophobic interactions	c)Base and sugar-phosphate backbone interaction	d) Base pairing	b
92	Which of the fo	ollowing is a termi		1	UGA
	a) UGA	b) AGA	c) AGG	d) UUU	a
93	The wobble hy	Francis Crick			
	a) Arthur Kornberg	b) Francis Crick	c) James Watson	d) William Asbury	b
94	The coding seq	Exons			
	a) Operons	b) introns	c) exons	d) cistrons	с
95	Which of the for evolution?	Mutation			
	a) Mutation	b) Replication	c) Translation	d) Transcription	a
96	RNA viruses an	Lack of proofreading mechanisms			
	a) DNA proofreading mechanisms	b) High fidelity of RNA polymerase	c) Lack of RNA polymerase	d) Lack of proofreading mechanisms	d
97	Which of the fo	Ambiguous			
	a) Triplet	b) Degenerate	c) Non – overlapping	d) Ambiguous	d
98	Which of the for the amino acid	Acceptor stem			
	a) Acceptor stem	b) D loop	c) ΨU loop	d) Variable loop	a
99	DNA helicase t	Lagging strand template in $5' \rightarrow 3'$ direction			
	a) Leading	b) Leading	c) Lagging	d) Lagging strand	d
	strand	strand template	strand template	template in $5' \rightarrow 3'$	1

	template in $3^{\circ} \rightarrow 5^{\circ}$ direction	in $5' \rightarrow 3'$ direction	in $3' \rightarrow 5'$ direction	direction			
100	Shine – Dalg	Shine – Dalgarno sequence is also known as the					
	a) Open reading frame	b) Ribosome binding site	c) Stop codon	d) Start codon	b		

 $\ast$  Q 82 - Forwarded for Grievance Committee Decision