Test Booklet No		
This booklet consists of 100 questions and 20 printed pages.	ı	
RGUCET/2024//_		.
	Series	NIL

RGUCET 2024 Common Entrance Test, 2024

MASTER OF SCIENCE (ZOOLOGY)

Full Marks: 100	Time: 2 Hours
Roll No.	
Day and Date of Examination:	
Signature of Invigilator(s)	
Signature of Candidate	
General Instructions:	

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 within one hour thirty minutes.
- 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.

		Answer option			
	a) 256	b) 343	c) 365	d) 400	b) 343
2		of 180.50 is 36.1?	1 -)	1 2)	Answer option
	a) 20	b) 25	c) 20.5	d) None of these	a) 20
3	The average age teacher is also in What is the age of	Answer option			
			c) 30 years	d) 55 years	b) 46 years
4		three sets such that	$A \cap B = A \cap C$ and		Answer option
	a) A = B	b) A = C	c) B = C	d) A∩B=C	c) B = C
5		rbitrary constants in ion of third order is		olution of a	Answer option
	a) 3	b) 2	c) 1	d) 0	d) 0
6	Change in voice: "Who is creating				d
	a) Who has	b) By whom has	c) By whom	d) By whom is	d) By whom is
	been created	this mess been	this mess is	this mess being	this mess
	this mess?	created?	being created?	created?	being created?
7	What is the Syno	nym of "EMBEZZ	LE"?		a
	a)Misappropria te	b)Balance	c)Remunerate	d) Clear	a)Misappropri ate
8	What is the Anto	nym of "EXODUS	<u>'</u> '''		a
Ü	a)Influx	b)Home-coming		d)Restoration	a)Influx
9	Improve the sent	ence: esire brought about	his downfall."	<u> </u>	b
	a) His intense	b) His desire for	c) His fatal	d) No	b) His desire
	desire	power	desire	improvement	for power
10	The grapes are no	owenough	to be picked.	l	С
-	a) Ready	b) Mature	c) Ripe	d) Advanced	c) Ripe
11	The highest civil	ian award in India	is:		A
	A) Bharat Ratna	B) Padma Bhushan	C) Padma Vibhushan	D) Padma Shri	Bharat Ratna
12	Which national p	park is famous for b	eing the last natu	ıral habitat of	D
	A) Kaziranga National Park	B) Ranthambore National Park	C) Jim Corbett National Park	D) Gir National Park	Gir National Park
13		owing is NOT a re a elections in India	quirement for eli	gibility to	С

	A) Must be a resident of the constituency from which he/she is	B) Must have attained the age of 25 years	C) Must have a minimum educational qualification of a	D) Must be a citizen of India	Must have a minimum educational qualification of a
	contesting		Bachelor's degree		Bachelor's degree
14	Arunachal Prade which year?	sh was established	as a full-fledged	state of India in	D
	A) 1962	B) 1971	C) 1987	D) 1986	1986
15		s, located in Aruna Which of the follo			В
	A) One-horned Rhinoceros	B) Clouded Leopard	C) Asiatic Lion	D) Bengal Tiger	Clouded Leopard
16		lowing countries sendustry developmen		for India's	С
	A) China	B) Japan	C) South Korea	D) United States	South Korea
17	The launching da	ate of Viksit Bharat	@2047: Voice o	f Youth	В
	A) 5 January,	B) 11th	C) 14	D) 10	11th
	2024	December, 2023	February, 2024	November, 2023	December, 2023
18	What is the signi Bharat?	ficance of the year	2047 in the cont	ext of Vikshit	A
	A) It marks the centenary of India's independence	B) It signifies a major environmental milestone	C) It represents the completion of a demographic shift	D) It is the target year for achieving global sustainability goals	It marks the centenary of India's independence
19	Who were award	led the Nobel Prize	in Medicine in 2	.023?	С
	A) David Julius and Ardem Patapoutian	B) Harvey J. Alter, Michael Houghton, and Charles M. Rice	C) Katalin Kariko and Drew Weissman	D) Emmanuelle Charpentier and Jennifer Doudna	Katalin Kariko and Drew Weissman
20	Which Indian cit Survekshan 2024	y was declared the 4?	cleanest in India	in the Swachh	A
	A) Indore	B) Mysore	C) Surat	D) Ahmedabad	Indore
21	The sequence menstruation	of hormone sec	retion from the	e beginning of	Answer option (a,b,c or d)
	a) FSH,	b) Estrogen,	c) FSH,	d) Estrogen,	c.FSH,
	progesterone, estrogen	progesterone, FSH	estrogen, progesterone	progesterone, FSH	estrogen, progesterone
22	Match the follow	ring cells with their	secretions:	•	Answer option

	A. Beta cells		1. Lysozyme			(a,b,c or d)
	B. Mast cells		2. Pancreatic enzyme			
	C. Paneth cells		3. Histamine			
	D. Acinar cells		4. Insulin			
	a. A-4, B-2, C-	b. A-3, B-2, C-4	c. A-4, B-3, C-	d. A-2, B-3,	C-	c. A-4, B-3, C-
	1, D-2	D-1	1, D-2	1, D-4		1, D-2
23	Chose the Correct	et statement: In D	Prosophila sex is de	etermined by		Answer option (a,b,c or d)
	a) X and Y Chromosomes	b) . Ratio of pair of X chromosomes to the pairs of autosomes	numbers of X	d) Whether egg is fertili or developed parthenogen cally	zed d	c) Ratio of numbers of X chromosomes to the sets of autosomes
24	Choose the corre	ct option:				Answer option (a,b,c or d)
	A: Assertion: The Golgi and Lysoso		of protein sorting is	s present on E	R,	
	B: Justification: l organelles	-	sorting takes place	in these cell		
	a) A is false and B is true	b) B is not the reason of A	c) A is false and B is True	d) Both A ar B is false	nd	d) Both A and B is false
25	Find out the tru Which part of o ovulation?		ls acts as an endoc	crine gland a	fter	Answer option (a,b, c, d)
	a)Graafian	b) Stroma	c)Germinal	d)Vitelline		a) Graafian
2.5	follicle		epithelium	membrane		follicle
26		hat regulates th	e growth and mo	etamorphosis	s in	Answer option (a,b,c or d)
	a) Adrenalin	b) Insulin	c) Thyroxine	d) Cortisol		(C) Thyroxine
27	/	/	those of column –	/	t	Answer option
	the correct match	from the given o				(a,b,c or d)
	a. Human	erythrocyte	i. 0.85			
	b. Mouse I	Liver Cell	ii. 1.3			
	c. Mitochondrial inner membrane		iii. 1.1			
	d. Ameba iv. 3.2					
	a) a-iv, b-i, c-iii, d-ii	b) a-i, b-ii, c-iv d-iii	v, c) aiii, b-i, c-iv, d-ii	d) a-ii, b-i, c d-iv	-iii,	c) aiii, b-i, c-iv, d-ii
28	Choose the corre	ct statements:				Answer option
	Immediately aft	er fertilization i	n animals the fire	t biochemica	ı	(a,b,c or d)
	Immediately after fertilization in animals the first biochemical changes in the egg are initiated by					

	a) New gene transcription	b) The release of ca ²⁺⁺ from the internal	c) The initiation of DNA	d) A lowering of cytosolic ph	b) The release of ca ²⁺⁺ from the internal
		reservoirs	synthesis		reservoirs
29	Choose the corre	ct option			Answer option (a,b,c or d)
		yhemoglobin form globin in periphera	_	in lung and CO2	() ,
		CO@ forms in peri		erb cycle	
	a) A is correct,	l '	c) Both A and	d) A is wrong,	d) A is wrong,
	but B is wrong	are correct	B are wrong	but B is correct	but B is
30	Find out the corr	 ect statement neuro	n and endocrine	aland:	Answer option
30	ring out the con	eet statement neure	m and endocrine	giand.	(a,b,c or d)
	a.Neurons	b) Endocrine	c)Neither	d) Endocrine	a.Neurons
	regulate	glands regulate	hormones	glands regulate	regulate
	endocrine	neural activity	control neural	neural activity,	endocrine
	activity, but not	and nervous	activity nor	but not <i>vice</i>	activity, but
	vice versa.	system regulates	the neurons	versa	not vice versa.
		endocrine	control endocrine		
		glands	activity.		
31	Blocking action	of enzyme through		ve site is	Answer
	8	, 8	8		c
	a) Allosteric	b) Feedback	c)	d)Non-	Competitive
	inhibition	inhibition	Competitive	competitive	inhibition
			inhibition	inhibition	
32	Oxidative phospl	l horylation takes pla	ace in		Answer
		T 2 3 2	Г	Γ.,	a
	a)Inner	b)Outer	c)	d)	Inner
	mitochondrial	mitochondrial	Mitochondrial	Mitochondrial	mitochondrial
	membrane	membrane	cytosol	inter membrane space	membrane
33	Amylase is a			Space	Answer
	•				d
	a) Proteolytic	b)Lipolytic	c) Zymogen	d)	Carbohydrate
	enzyme	enzyme		Carbohydrate	splitting
				splitting	enzyme
				enzyme	
34	Okazaki fragmer	nt is an element for	<u> </u>	<u> </u>	Answer
	- Sinzani iragillor				a
	a)DNA	b)DNA	c)cDNA	d) synthesis of	DNA
	replication	transcription	synthesis	genomic DNA	replication
35	Active transport	through plasma me	embrane requires	l	Answer
	a) GTP	b) ATP	c) GDP	d) cAMP	ATP
	a) UIF	UJAIF	לאס משר	u) CAIVIF	AII
36	The most abunda	ant carbohydrate for	und in nature is		Answer

		С			
	a) Starch	b) Glycogen	c) Cellulose	d) Chitin	Cellulose
37	The glycolysis is	Answer d			
	a) Hexokinase	b) Phosphofructoki nase	c)Pyruvate kinase	d) All of these	All of these
38	Which bond is pr	resent in the prima	ry structure of pro	otein?	Answer d
	a) Ester	b) Hydrogen	c) Ionic bond	d) Peptide	Peptide
39	The nucleoside is	s composed of			Answer a
	a) a base and a sugar	b) a base and a sugar and phosphate	c) a base and phosphate	d) a base	A base and a sugar
40	Isoenzymes are			,	Answer a
	a) Chemically, immunologicall y and electrophoretic ally different forms of an enzyme	b) Different forms of an enzyme similar in all properties	, ,	d) Having the same quaternary structures like the enzymes	Chemically, immunologica lly and electrophoreti cally different forms of an enzyme
41	Big-Bang hypoth	iesis was propose	d by		Answeroption
	\ D :	1.7	\\\ C'11	1/0	(a,b,c or d)
42		b)Lemaitre glish scientists wo	c)Miller rked on origin of	d)Pasteur life and finally	b)Lemaitre Answeroption
	a) AI Oparin	b.Louis Pasteur	c)JBS Haldane	d)Archbishop Ussher	(a,b,c or d) c)JBS Haldane
43	Match the follow	ring pairs:			
	A. Collection of preserved remains of ancient organisms B. study of physical form of II. wings of insects & birds				Answeroption (a,b,c or d)
	organism C. Analogous o	rgans	II. wings of insects & birds iii. Coccyx		(4,5,0 01 4)
	D. Vestigial org		iv.Fossil record	4) V :: D ::: C	a) A in DIC
	a)A-iv,B-ii,C- iii& D-i.	b) A-i,B-ii,C-iii &D-iv.	c) A-iv, B- I,C-ii&D-iii.	d) A-ii,B-iii,C- iv &D-i.	c) A-iv, B-I,C- ii&D-iii.
44	A. Cenozoic en	s of only 'true' stat ra is the 'age of ma t appeared in Creta	ammals'.	following:	Answeroption

	C. Homologou	(a,b,c or d)			
	D. Virus is the a)A-B	b)B-C	c)C-D	d)A-C	d)A-C
45	/	comments from the	/	/	u)A-C
73	andjustification	comments from the	lonowing on gr	ven the assertion	Answeroption
	3	n: Amphibians are	evolved from fis	hes	Answeroption
		tion: Archaeoptery			(a,b,c or d)
	amphibians	tion, menacopiery.	<i>w</i> 15 a 105511 1111111	ing mones and	(4,5,6 51 4)
	a)Both A & B	b) Both A & B	c) A is true	d)A is false but	c) A is true but
	are true, as well	are true, but Bis	butB is false.	B istrue	B is false.
	as B is the	not the correct			
	correct	justification			
	justification	J			
46	According to Da	rwin two different a	areas within a con	ntinent have	Answeroption
		because they have			(a,b,c or d)
	(a)	b)ancestor	c)environmen	d)evolutionary	c)environment
	evolutionary		t	times	
	mechanism				
47		00 species of fru			
		are restricted to a			Answer option
		rn is that each spec	_		(a,b,c or d)
	of flies, hadcolor	nized a new island.	This mechanism		
	a)Sexual	b)Genetic	c)Disruptive	d)The founder	d)The founder
48	Selection	Equilibrium mbination of staten	Selection	effect	effect
	B. Emigration isC. Directional s	The Descent of man is the migration of in election brings about apes are commonly	ndividuals into a ut progressive ev	n area colution	Answer option (a,b,c or d)
	a)A&B	b)B&C	c)C&D	d)D&A	a)A&B
49	/	comments from the	/	/	u)i ieeB
	and justification-		8 8		Answer option
	•	: Homo habilis wa	as the first tool	maker being the	(a,b,c or d)
	humanancestor			-	
		on: Homo habilis v	•		
	a)Both A & B	/	c) Both A& B	d)A is true but b	b) A is true but
	are true	is not proper	arefalse	is not false	B is not
		justification			proper
					justification
50		Karyotype of 64 of			Answer option
		chromosomes. The			(a,b,c or d)
	because it cannot	mule which has 63	o enromosome. A	A mule is sterile	
	a)court other	•	c) form	d)different	a)court other
	mules	mules, donkey	gamates	copulatory	mules
	1110100	or horses	Samates	organs	HIGHOS
51	Which of the foll	owing techniques i	s used to amplify		Answer option
	,, men et the foll	.c., mg teeminques i	e asca to amping	, 21111.	(a,b,c or d)
$oxed{\Box}$					(4,0,0 01 4)

	a) Gel electrophoresis	b) Polymerase Chain Reaction (PCR)	1	c) Western blotting	d) ELISA	b) Polymerase Chain Reaction (PCR)
52	Match the follow	ing terms of the	ir a	application:		Answer option
	(A) SDS-PAGE	,	(i) Nucleic act	id separation	(a,b,c or d)
	(D) 11 1 1					
	(B) Vertical gel		(1	i) Protein sep	paration	
	electrophoresis					
	(C) DNA barco	de	(i	ii) Taxonomy	and	
			p]	hylogeny		
	(D) Colorimetry	ý	(i	v) Light absor	rbance	
	a) A-i, B-ii, C-	b) A-ii, B-i, C-		c) A-ii, B-iii,	d) A-iii, B-ii,	b) A-ii, B-i, C-
	iii, D-iv	iii, D-iv		C-ii, D-iv	C-i, D-iv	iii, D-iv
				,		
53	Indicate the true	statements on El	LIS	SA		Answer option
		1 , , 1		··c ··c		(a,b,c or d)
	(A) ELISA ca	an detect and qu	ıan	itily specific pro	teins, antibodies,	
		ses an enzyme-lii	nke	ed antigen or anti	body as a marker.	
	` '	•		_	s; it only detects	
	their presence.		•	Ž	•	
	(D) ELISA is					
	a) A and C are	b) B and D are		c) A and B are	d) C and D are	c) A and B are
	a) A and C are true	true		true	true	true
	tide	ii de		truc	i i i i	liuc
54	Choose the corre	ct option:				Answer option
				1	1 1 0	(a,b,c or d)
	A: Assertion: Red dependent variab	~		-		
	variables.	de based on the	vai	ue of one of filor	e maepenaem	
	variables.					
	B: Justification:		aly	sis, the dependen	t variable is	
	always a categor			I	Lavinas	
	a) Both A and	b) Both A and I	В	c) A is true,	d) A is false,	(c) A is true,
55	B are true	are false	1144	but B is false	but B is true	but B is false
33	Which of the foll	lowing is a illeas	urt	or dispersion?		Answer option (a,b,c or d)
	a) Mean	b) Median		c) Mode	d) Standard	d) Standard
	,			,	deviation	deviation
56	What is the proba	ability of getting	; he	eads in a single to	oss of a fair	Answer option
	coin?			T .	T	(a,b,c or d)
	a) 0.25	b) 0.50	,1	c) 0.75	d) 1	(b) 0.50
57	Match the terms					Answer option
	descriptions (righ	n column) regar	ulľ	ig regression equ	auon.	(a,b,c or d)

	(A) a		(i) The y-in	itercept in a	
			simple linear	-	
			equation	8	
	(B) b		(ii) The slope of t	the regression	
			line in a simple li	_	
			regression equation		
	(C) c		(iii) The correlati	on coefficient	
			measuring the str	ength and	
			direction of a line	ear	
			relationship betw	een two	
			variables		
	(D) r		(iv) A constant in		
			regression repres		
			specific term in the		
	a) A-iv, B-i, C-	b) A-i, B-ii, C-	c) a) A-iii, B-	d) A-ii, B-i, C-	b) A-i, B-ii, C-
	iii, D-ii	iv, D-iii	i, C-ii, D-iv	iii, D-iv	iv, D-iii
58	Choose the corre	ect statements:			Answer option
			41 4 4	0 11 1	(a,b,c or d)
		• •	usually a thin laye	r of silica gel or	
	alumina coated o		. 11		
		hase in TLC is typ		C1	
			n TLC is used to c		
	movement of a c	ompound relative	to the solvent from	nı.	
	D The compound	ds in TLC move d	ue to capillary act	ion in the	
	stationary phase.		de to capmary act	ion in the	
	stationary phase.	•			
	a) A and B are	b) A and C are	c) A and D	d) B and D are	b) A and C are
	correct	correct	correct	correct	correct
59	Choose the corre	ect option	<u> </u>		Answer option
		-			(a,b,c or d)
	A: Assertion: Sc	anning Electron M	dicroscopy (SEM)	is used to obtain	
	_	mages of the surfa	-		
		SEM uses a beam	of light to scan th	e surface of the	
	sample.				
	a) A is correct,	b) Both A and B	c) Both A and	d) A is wrong,	a) A is correct,
	,	· ·	· ·		
	but B is wrong	are correct	B are wrong	but B is correct	but B is wrong
60	but B is wrong Which of the fol	are correct lowing statements	B are wrong regarding the Pol	but B is correct	but B is wrong Answer option
60	but B is wrong Which of the fol	are correct	B are wrong regarding the Pol	but B is correct	but B is wrong
60	but B is wrong Which of the fol Reaction (PCR)	are correct lowing statements technique is corre	B are wrong regarding the Pol	but B is correct ymerase Chain	but B is wrong Answer option (a,b,c or d)
60	but B is wrong Which of the fol Reaction (PCR) a) PCR is a	are correct lowing statements technique is corre b) PCR involves	B are wrong regarding the Pol ct?	but B is correct ymerase Chain d) PCR does	but B is wrong Answer option (a,b,c or d) a) PCR is a
60	but B is wrong Which of the fol Reaction (PCR) a) PCR is a method used to	are correct lowing statements technique is corre b) PCR involves the synthesis of	B are wrong regarding the Pol ct? s c) PCR requires the	but B is correct ymerase Chain d) PCR does not require the	Answer option (a,b,c or d) a) PCR is a method used
60	but B is wrong Which of the fol Reaction (PCR) a) PCR is a method used to amplify	are correct lowing statements technique is corre b) PCR involves the synthesis of RNA from a	B are wrong regarding the Pol ct? s c) PCR requires the use of a	d) PCR does not require the use of thermal	Answer option (a,b,c or d) a) PCR is a method used to amplify
60	but B is wrong Which of the fol Reaction (PCR) a) PCR is a method used to amplify specific DNA	are correct lowing statements technique is corre b) PCR involves the synthesis of	B are wrong regarding the Pol ct? S c) PCR requires the use of a protein	but B is correct ymerase Chain d) PCR does not require the	a) PCR is a method used to amplify specific DNA
60	but B is wrong Which of the fol Reaction (PCR) a) PCR is a method used to amplify specific DNA sequences in	are correct lowing statements technique is corre b) PCR involves the synthesis of RNA from a	B are wrong regarding the Pol ct? ct? c) PCR requires the use of a protein enzyme called	d) PCR does not require the use of thermal	but B is wrong Answer option (a,b,c or d) a) PCR is a method used to amplify specific DNA sequences in
60	but B is wrong Which of the fol Reaction (PCR) a) PCR is a method used to amplify specific DNA	are correct lowing statements technique is corre b) PCR involves the synthesis of RNA from a	B are wrong regarding the Pol ct? S c) PCR requires the use of a protein enzyme called reverse	d) PCR does not require the use of thermal	a) PCR is a method used to amplify specific DNA
	but B is wrong Which of the fol Reaction (PCR) a) PCR is a method used to amplify specific DNA sequences in vitro.	are correct lowing statements technique is corre b) PCR involves the synthesis of RNA from a DNA template.	B are wrong regarding the Pol ct? ct? c) PCR requires the use of a protein enzyme called	d) PCR does not require the use of thermal	but B is wrong Answer option (a,b,c or d) a) PCR is a method used to amplify specific DNA sequences in vitro.
60	but B is wrong Which of the fol Reaction (PCR) a) PCR is a method used to amplify specific DNA sequences in vitro.	are correct lowing statements technique is corre b) PCR involves the synthesis of RNA from a	B are wrong regarding the Pol ct? S c) PCR requires the use of a protein enzyme called reverse	d) PCR does not require the use of thermal	but B is wrong Answer option (a,b,c or d) a) PCR is a method used to amplify specific DNA sequences in

	a) Single layer of	b) Two layer of biomembrane	of	d) No biomembrane	b) Two layer of
	biomembrane		biomembrane		biomembrane
62	Fluid mosaic mo	Answer option			
	a) Singer and Nicolson	Danielli	Crick	d) Robert Hooke	a) Singer and Nicolson
63	Which of the foll	owing statement	is/are true?		Answer option
	A. Bacterium is u B. viruses are alv C. Cell wall of fu D. Chloroplast ha				
	a) Both A and B	b) Both B and C	c) Both C and D	d) Both A and D	d) Both A and D
64		ch organelle has a	specific function of tissues which p		Answer option
	function.				
	a) Both A and R are correct and R is the correct explanation of A	are correct but R	but R is not correct		b) Both A and R are correct but R not the correct explanation of A
65	Match the cell or	ganelles with the	ir function		Answer option
	A. Lysosome		i. Oxidize stored f	ats	
	B. Glyoxysome		ii. Protein synthes	is	
	C. Mitochondria		iii. Phagocytosis		
	D. Ribosome a) A-iii, B-i, C-	b) A-ii, B-iv, C	iv. ATP generation c) A-ii, B-iii,	d) A-iii, B-i, C-	d) A-iii, B-i,
	ii, D-iv	i, D-iii	C-iv, D-i	iv, D-ii	C-iv, D-ii
66	Which of the fol mitochondrial ma		of the Krebs cycle	is not present in	Answer option
	a) Aconitase	b) Succinate dehydrogenase	c) Fumarate hydratase	d) Isocitrate dehydrogenase	b) Succinate dehydrogenas e
67	Which of the foll	owing is/are false	e statement?		Answer option
	B. Basophils are	enucleated. r stated that cow _l	man blood group. pox pustule could immunity.		
	a) Both A and C	b) Both A and B		d) Both C and D	a) Both A and C
68	Choose the corre	ct option	·	1	Answer option

	A: Assertion: Ski					
	R: Reason: Skin					
	a) Both A and R	b) Both A and	R	c) A is correct	d) A is not	a) Both A and
	are correct and			but R is not	correct but R is	R are correct
	R is the correct	not the correc	ct	correct	correct	and R is the
	explanation of					correct
	A	1				explanation of
						A
69	Match the type o	f macrophages to	o th	neir tissue location	on	Answer option
	A. Alveolar ma			Liver		•
	B. Histiocytes	1 0		Lung		
	C. Kupffer cells	3		i. kidney		
	D. Mesangial ce			. Connective tiss	sue	
	a) A-iv, B-i, C-				d) A-ii, B-i, C-	b) A-ii, B-iv,
	ii, D-iii	i, D-iii		C-iii, D-i	iv, D-iii	C-i, D-iii
70	Which of the foll		ЛН		11, 11	Answer option
/ 0	Willow of the following	owing cen has i	v 1 1 1	.C I morecure:		7 mswer opnon
	a) All nucleated	b) Only	В	c) Only T	d) None	a) All
	cell	lymphocyte	ر	lymphocyte		nucleated cell
71	Which of the foll		сh		endelian	b)Incomplete
/ 1	inheritance?	lowing is 1101 a	CII	aracteristic or wi	Chachan	dominance
	inneritance.					dominance
	a)Dominance	b)Incomplete		c)Segregation	d)Independent	b
	a)Dominance	dominance		c)Segregation	assortment	U
72	The process by w		ne	specialized durir		Differentiation
12	is known as:	villeli celis occol	IIC	specialized durii	ig development	Differentiation
	a)Mitosis	b)Meiosis		c)Differentiati	d)Mutation	c
	ajiviitosis	O)IVICIOSIS		on	djividiation	C
73	What is the role	of HOX genes in	. de			Determine
13	what is the fole	of 11021 genes in	ı uc	velopment:		body plan
	a)Regulate	b)Control cell		c)Determine	d)Stimulate	c
	apoptosis	division		body plan	DNA repair	C
74	Which of the foll		mn	<u> </u>	<u> </u>	a)Down
/ 4	abnormality?	lowing is all exal	шP.	ic of a ciliofficso	11141	syndrome
	a)Down	b)Tay-Sachs		c)Phenylketon	d)Duchenne	a
	syndrome	disease		uria	muscular	a
	Syndionic	uiscast		ulla	dystrophy	
75	What is the funct	tion of the angree	ne l	DNA polymores	· · · · ·	b)Adds
13	replication?	non or the enzym	וכ ו	DIVA polymerase	duffing DNA	nucleotides to
	Tepheanon					the new DNA
						strand
	a)Uncina the	b) A d d a		a)D or aire	d)Tromponile as	strand b
	a)Unzips the	b)Adds		c)Repairs	d)Transcribes	D
	DNA double	nucleotides to		damaged	DNA into	
	helix	the new DNA		DNA	RNA	
76	In house to	strand	0.5	a ana masa ant in	gamatic cello	22:
76	In humans, how	· · · · · · · · · · · · · · · · · · ·	mes			23 pairs
	a)23 pairs	b)46 pairs		c)23	d)46	a)

77	What is the prim embryonic devel	a)Formation of the placenta					
	a)Formation of	b)Development	c)Formation	d)Initiation of	a		
	the placenta	of the nervous	of the germ	organogenesis			
		system	layers				
78	Which of the fol gastrulation?	d)Epiderm					
	a)Ectoderm	b)Mesoderm	c)Endoderm	d)Epiderm	d		
79	The process of n	eurulation involves	the formation of		b)Neural tube		
	a)Notochord	b)Neural tube	c)Blastocyst	d)Neural crest cells	ь		
80	Which of the fol	c)Lack of ethical concerns					
	a)Ability to	b)Capacity for	c)Lack of	d)Presence in	c		
	self-renew	unlimited	ethical	various tissues			
		differentiation	concerns				
81	Which of the fol	protein					
	synthesis?						
	a) snRNA	b) rRNA	c) yRNA	d) dsRNA	b) rRNA		
82		component molecul	les scan the DNA	during			
	nucleotide excisi		1 .	Γ			
	a) UvrB, UvrC	b) UvrC, UvrA	c) UvrD,	d) UvrA, UvrB	d) UvrA,		
			UvrA		UvrB		
83		lowing is a characte		Γ			
	a) Non –	b) 3 –	c) Contiguous	d) Intron	d) Intron		
	overlapping	nucleotide codons					
84	Which of the fol	lowing will form a	palindromic sequ	ience?			
	a)	b) GTTCCAAG	c)	d)	c)		
	AGTCCTGA		ATTGCAAT	GTTGGAAC	ATTGCAAT		
85	Which of the fol prokaryotes?	Which of the following does not occur during cell division in prokaryotes?					
	a) DNA	b) Strand	c) Multiple	d) DNA	c) Multiple		
	rejoining	passage	decatenations	cleavage	decatenations		
86	Which of the fol	lowing is not requir					
	a) Polymerase	b)	c) Restriction	d) Cloning	d) Cloning		
	chain reaction	Electrophoresis	digestion				
87		ning which of the f	following is not a	crucial			
	requirement?	145	T > = = :	I 40 === : .			
	a) Protein	b) Vector	c) Molecular	d) DNA inserts	a) Protein		
	expression		cutter		expression		
88		Pick the right difference between a DNA and RNA?					
	a) Sugar and	b)Sugar and	c) Purines and	d)Sugar and	d)Sugar and		
00	phosphate	purines	phosphate	pyrimidines	pyrimidines		
89		he coding sequences found in split genes are called-					
0.0	a) Operons	b) Introns	c) Exons	d) Cistrons	c) Exons		
90	Peptidyl transfer		Ι .	15 1 11 1 1	1) 4 11 1 1		
	a)A 23s rRNA	b)Forms peptide	c)component	d)All the three	d)All the three		
01	т 1 1 1	bonds	of ribosome				
91	Enzyme which c	an break and seal th	ne DNA strand 1s	-			

	a)Topoisomeas e II	b)Helicase	c)	Primase	d)Restriction endonuclease		a)Topoisomea se II
92	The first recombinant DNA molecule was synthesized in the year						
	a)1962	b)1972	c)	1982	d)1992		b)1972
93	First human hormone produced by Recombinant DNA technology is -						
	a) Insulin	b) Thyroxine		Estrogen	d)Glucagon		a) Insulin
94		s of blue-white screening with pUC vector is-					
	a)Intraallelic	b) Intergenic		Intragenic	d) Extragenio	2	a)Intraallelic
	complementati	complementation	o su	appression	suppression		complementati
0.5	on	<u>n</u>		C DMA			on
95	Which of the foll) A E C +
	a) A prophage.	b) An Hfr element.	ĺ	An F factor.	d) All of thes	e.	c) An F factor.
96	What type of dig						В
	A) Complete	B) Incomplete	C) Absent	D) Complete		Incomplete
	with mouth and	with only a			with multiple	•	with only a
07	anus	mouth			openings		mouth
97	Find the incorrec	t matching pairs		. 1. 1 11	'1 1		С
	A Choanocytes		_	ecialized cells vater circulation	-		
	B Spicules			uring food tructural eleme	ents that		
	b Spicules			ide support an			
			pred				
	C Osculum				avity of the		
	D Mesohyl			iii. Large central cavity of the sponge iv. Gelatinous matrix within a			
				sponge containing various			
			cells				
	a) Only A	b) Only B	c)	Only C	d) Only D		Only C
98	Which statement	is true in terms	of "sp	ecies equilibr	ium" in island		A
	biogeography:						
	A. The point who	ere the immigrati	ion an	nd extinction r	ates of species		
	are equal	. 1 .	1				
	B. The balance b				.:		
	C. The equilibriu D. The genetic ba			-	108		
	a) A	b) B		Opulations C	d) D		The point
	a) A	() D			מים		where the
							immigration
							and extinction
							rates of
							species are
							equal
99	A: Assertion: Sponges (Porifera) do not have true tissues.						A
	B: Justification: Sponges have a cellular level of organization.						
	a) Both A and	b) Both A and I	B (c)	A is true,	d) A is false,		Both A and B
	B are true, and	are true, but B	is bu	ut B is false.	but B is true.		are true, and B

	B is the correct	not the correct			is the correct
	explanation of	explanation of			explanation of
	A.	A.			A.
100	What is the prim	С			
	A) Locomotion	B) Sensory	C) Feeding	D) Gas	Feeding and
		perception	and scraping	exchange	scraping food
			food		