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ROLL No.		

TEST BOOKLET No.

280

TEST FOR POST GRADUATE PROGRAMMES

ZOOLOGY

Time: 2 Hours

Maximum Marks: 450

INSTRUCTIONS TO CANDIDATES

- You are provided with a Test Booklet and an Optical Mark Reader (OMR) Answer Sheet to mark your responses. Do not soil the Answer Sheet. Read carefully all the instructions given on the Answer Sheet.
- 2. Write your Roll Number in the space provided on the top of this page.
- 3. Also write your Roll Number, Test Code, and Test Subject in the columns provided for the same on the **Answer Sheet**. Darken the appropriate bubbles with a **Ball Point Pen**.
- 4. The paper consists of 150 objective type questions. All questions carry equal marks.
- 5. Each question has four alternative responses marked A, B, C and D and you have to darken the bubble fully by a Ball Point Pen corresponding to the correct response as indicated in the example shown on the Answer Sheet.
- 6. Each correct answer carries 3 marks and each wrong answer carries 1 minus mark.
- 7. Please do your rough work only on the space provided for it at the end of this Test Booklet.
- 8. You should return the Answer Sheet to the Invigilator before you leave the examination hall. However, you can retain the Test Booklet.
- 9. Every precaution has been taken to avoid errors in the Test Booklet. In the event of such unforeseen happenings the same may be brought to the notice of the Observer/Chief Superintendent in writing. Suitable remedial measures will be taken at the time of evaluation, if necessary.



ZOOLOGY

1.	The book "Origin of Species" was wr	itten by
	(A) Alfred Wallace(C) Charles Darwin	(B) Linnaeus(D) T.B. Lamarck
2.	Which one of the following is organic	c catalyst?
	(A) Vitamin(C) Hormone	(B) Bile (D) Enzyme
3.	Albinism is due to lack of	
	(A) melanin (C) myosin	(B) actin (D) cyanin
4.	Assimilatory unit of protein is	
	(A) glucose (C) maltose	(B) amino acid(D) sucrose
5.	Which one of the following is not so	oluble in water?
	(A) Vitamin B (C) Vitamin B-12	(B) Vitamin D(D) Ascorbic acid
6.	Accessory respiratory organs are pr	esent in
	(A) clarias (C) scoliiodon	(B) labeo(D) exocoetus
7.	In lungs, exchange of gases occurs	in
	(A) alveoli(C) bronchiole	(B) tracheole (D) vennule
8.	Copper molecule is present in	
	(A) myoglobin(C) hemoglobin	(B) haemocyanin(D) erythrosine

9.	Meson	nephric kidneys are found in		
	(A) (C)	fishes lizards	(B) (D)	
10.	Cerebi	ral hemisphere is concerned with	l	
	(A) (C)	7 11450105	(B) (D)	
11.	VII cra	inial nerve is termed as		
	(A) (C)	facial occular	(B) (D)	hypoglossal vagus
12.	The ho	rmone Ecdysone is concerned w	ith	
	(A) (C)	metamorphosis moulting	(B) (D)	
13.	Sleepin	g sickness is caused by		
	(A) (C)	plasmodium entamoeba	(B) (D)	monocystis trypanosoma
14.	Dysenti	ry and liver abscess is caused by		
	(A) (C)	Entamoba histolytica Euglena viridis	(B) (D)	
15.	In whic	h of the following animal true tis	ssue do	pes not exist?
	(A) (C)	Hydra Planaria	(B) (D)	Sycon Liverfluke
16.	Mesoglo	pea is present in		
	(A) (C)	hydra planaria	(B) (D)	sponge ascaris

		a f
17.	Antenary (green) glands are excretor	ry organs of
	(A) prawn(C) starfish	(B) hook worm(D) round worm
18.	Spiracles are present in	
	(A) insects(C) gastropods	(B) hydrozoans(D) poriferans
19.	Which one of the following is calle	d as living fossil?
	(A) Limulus (C) Paleomon	(B) Amoeba (D) Neries
20.	Which one of the following has bi	valve shell?
	(A) Bipinnaria(C) Glochidium	(B) Trochopore(D) Auricularia
21.	Torsion is found in	
	(A) scaphopoda(C) myriopoda	(B) gastropda(D) cephalopoda
22.	Ink gland is present in	
	(A) cat fish(C) fresh water mussel	(B) nauplius(D) cuttle fish
23.	Tube feet are found in	
	(A) annelids(C) echinoderms	(B) coelentrates(D) birds
24.	Tornaria is the larva of	
	(A) starfish(C) gold fish	(B) balanoglossus(D) ascidia

25.	In which of the following protonephridium is the excretory organ?			
	(A) (C)	Amphioxus Shark	(B) (D)	Petromyzon Hag fish
26.	Jaw less	s vertebrates are known as		
		placoderms ostracoderms	(B) (D)	
27.	Which	one of the following is green hou	se gas	s?
	, ,	Oxygen Ozone	(B) (D)	Carbon dioxide Nitrogen
28.	Heteroc	eercal tail is found in		
		shark catfish	(B) (D)	mackerel labeo
29.	Urostyl	e is present in		
		frog lizard	(B) (D)	fish cyclostomes
30.	Mouth 1	parts of mosquito are for		
	, ,	biting and chewing sponging	(B) (D)	siphoning piercing and sucking
31.	Left aor	rtic arch is present in		
	(A) (C)	monkey owl	(B) (D)	king fisher pigeon
32.	Second	vertebrae of the cervical region i	is calle	ed as
	(A) (C)	Sacral Lumbar	(B) (D)	Atlas Axis

33.	Nilgiri is a	
	(A) Sanctuary(C) National park	(B) Biosphere Reserve(D) Reserved forest
34.	Cycloid scales are not found in	
	(A) ophiocephalus(C) rohita	(B) labeo(D) scoliodon
35.	Which one of the following is tailed	amphibian?
	(A) Bull frog (C) Hyla	(B) Salamander(D) Toad
36.	Modified diapsidan skull is found in	ı
	(A) crocodile (C) sphenodon	(B) turtle (D) calotes
37.	Air sacs are absent in	
	(A) pigeon (C) jacana	(B) penguin(D) hawk
38.	Double solid ventral nerve cord is	the character of
	(A) protochordates(C) vertebrates	(B) invertebrates(D) agnathans
39.	Which one of the following is a se	a snake?
	(A) Naja naja(C) Bungarus	(B) Viper russeli(D) Hydophis
40.	Dolphins and whales are placed un	nder the order
	(A) cetacea(C) chiroptera	(B) dermoptera(D) insectivora

41.	Thecodont, heterodont and diphyodont teeth are found in			
	(A) (C)	birds mammals	(B) (D)	amphibins reptiles
42.	The stud	dy of developmental stages is		
		physiology morphology	(B) (D)	molecular biology embryology
43.	Correct	sequence is		
		class-order- phylum family-genus-species	(B) (D)	order-phylum-genus species-order-family
44.	Externa	l ear is found in		
		reptiles mammals	(B) (D)	birds amphibians
45.	Which	one of the following groups are e	exclus	ively marine animals?
	(A) (C)	Protozoans Echinoderms		Poriferans Annelids
46.	The nar	me of silverfish is		
	(A) (C)	lepisma bombyx	(B) (D)	
47.	Diplobl	lastic, acoelomate condition is fo	und ir	1
	(A) (C)	round worm sea anemone	(B) (D)	•
48.	Animal	Is which live at the bottom of the	sea a	re called
		lentic forms lotic forms	(B) (D)	

49.	Crocodile	e farming centre in India is in		
		Karnataka Andhra Pradesh	(B) (D)	Tamil Nadu Kerala
50.	Spicules	form endoskeleton of		
	· /	rat frog	(B) (D)	hydra sponge
51.	Taenia s	colium is endoparasite of		
	(A) (C)	blood of man intestine of man	(B) (D)	muscles of man muscles of pig
52.	Food of	Liver fluke is		
		blood lymph	(B) (D)	bile juice RBC
53.	Ancylos	toma duodenale causes		
	(A) (C)	anaemia filariasis	(B) (D)	
54.	Elephai	ntiasis disease is transmitted by		
	(A) (C)	fruit fly house fly	(B) (D)	
55.	Elepha	nt tusk shell is		
	(A) (C)	limex apis	(B) (D)	
56.	Cockro	oach mainly excretes		
	(A) (C)	uric acid urea	(B) (D)	

57.	Honey	bees are related to		
	(A)	sericulture	(B)	moriculture
	` ,	apiculture	(D)	
58.	A quee	n termite is recognized by its		
	(A)	large head	(B)	prominent abdomen
	(C)	long antennae	(D)	reduced legs
59.	Balano	glossus is now considered as		
	(A)	chordate	(B)	invertebrate
	(C)	protochordate	(D)	urochordate
60.	Which	fins are modified for gliding in e	exocoe	tus?
	(A)	dorsal	(B)	lateral
	(C)	ventral	(D)	pectoral
61.	The pro	teins that participate in muscle of	contrac	ction are
	(A)	actin	(B)	actin and myosin
	(C)	myosin	(D)	
62.	The terr	m chromosome was first coined	by	
	(A)	waideyer	(B)	boveri
	(C)	hofkin	(D)	benda
63.	A chron	nosome with its Centromere in t	he mid	Idle is called
	(A)	submetacentric	(B)	acentric
	(C)	metacentric	(D)	acrocentric
64.	Genes f	or colorblindness in man are loc	ated or	n
	(A)	X chromosome only	(B)	both X and Y chromosome
		Y chromosome only	(D)	

65.	Kappa particles are present in	
	(A) nucleus(C) plastid	(B) plasmids(D) cytoplasm
66.	Sex of the child is determined by the	
	(A) size of the ovum(C) sex chromosome of father	(B) sex chromosome of mother(D) health of father
67.	Karyotype is the name from	
	 (A) complete set of diploid chron (B) haploid set of chromosome (C) eukaryotic chromosome (D) prokaryotypic chromosome 	nosome
68.	Complete breakdown of nuclear mem	brane takes place in
	(A) telophase(C) anaphase	(B) metaphase(D) cytokinesis
69.	Cytochromes are	
	(A) hydrogen acceptors(C) nitrogen acceptors	(B) electron acceptors(D) oxygen acceptors
70.	Animal cells are without	
	(A) plastids(C) vacuoles	(B) lysosomes(D) ribosomes
71.	Golgi bodies are concerned with	
	(A) excretion(C) atp synthesis	(B) secretion(D) RNA synthesis
72.	Lysosomes were discovered by	
	(A) white (C) brown	(B) benda (D) de duve

73.	Mesoz	oic era is known as		
	(A) (C)	E	(B) (D)	•
74.	The rec	ceptor pigment for light in the ey	es of l	and vertebrates is
	(A) (C)	chlocruurin hemoglobin	(B) (D)	pectin rhodopsin
75.	The syr	mpathetic and parasympathetic s	ystem	s constitute
	(A) (C)	reflex action reflex arc	(B) (D)	autonomous nervous system conditional reflex
76.	Mulller	rian duct in the female develop in	nto	
	(A) (C)	uretar uterus	(B) (D)	oviduct seminal receptacle
77.	Amnio	n and allontois found in		
	(A) (C)	fish and frog fowl and frog	(B) (D)	fowl and fox fish and fox
78.	The egg	g of frog is		
	(A) (C)	telolecithal microlecithal	(B) (D)	centrolecithal alecithal
79.	The fun	ections of allontois in birds are		
	(A) (C)	nutrition and excretion excretion and protection	(B) (D)	nutrition and respiration excretion
80.	In which	h of the animal cotyledonary pla	centa i	is found?
	(A) (C)	sheep mouse	(B) (D)	rabbit elephant
81.	Fossil re	emains of Archaeopteryx were re	ecover	ed form the lime stones of
	(A)	triassic period	(B)	cambrian period

	(C)	cretaceous period	(D)	jurassic period
82.	The pre- theory o		os of	all the vertebrates supports the
	(A) (C)	biogenesis recapitulation	(B) (D)	organic evolution metamorphosis
83.	The orgare	ans which have similar function	but di	ifferent in its structure and origin
	(A) (C)	homologous analogus	(B) (D)	_
84.	Chloflu	rocarbon (CFC) cause the threat	to the	natural concentration of
	(A) (C)	carbon dioxide ozone	(B) (D)	
85.	Both Ze	ebra and African lion live in trop	ical g	rass lands but occupy different
	(A) (C)	biospheres environments	(B) (D)	_
86.	The car	rrying capacity of population is c	leterm	nined by its
	(A) (C)	population growth birth rate	(B) (D)	
87.	In an e	cosystem the photosynthetic plan	nts are	,
	(A) (C)	producers decomposers	(B) (D)	
88.	The ter	rm ecology was coined by		
	(A) (C)		(B) (D)	
89.	What	type of forests is found near the	equato	or?
	(A) (C)		(B) (D)	

90.	Ultima	te source of energy in an ecos	ystem is	
		sunlight glucose	(B) (D)	ATP protein
91.	Noise p	pollution is measured by		
		tons fathoms		decibels kilograms
92.	During	winter the polar bear		
	` ,	hibernates aestivates	, ,	remains active migrates
93.	In a par	rasite food chain the pyramid	of numbe	ers is
	(A) (C)	up right linear		irregular horizonatal
94.	Archen	teron is present in		
	` ,	blastulas gastrula	(B) (D)	morula Both (A) and (C)
95.	Prothro	mbin is related to		
	(A) (C)	BP hypertension		oxygen transport clotting of blood
96.	Middle	piece of the mammalian speri	n contair	ns
	(A) (C)	mitochondria acrosome	` '	nucleus centriole
97.	Most of	f the bones in birds are		
		pneumatics solid	(B) (D)	porous All of the above
98.	Which	one of the following has become	me extino	et recently?
	(A)	Mammoth Dodo	(B)	Dinosaur Archaeopteryx

99.	Kiwis a	re now restricted to		
		Australia South Africa	(B) (D)	USA New Zealand
100.	The hor	mone GnRH is secreted by		
-		pituitary adrenal gland	(B) (D)	ovary hypothalamus
101.	Kazirar	nga national .park is known fo	or	
		tiger lion	(B) (D)	
102.	Gonads	s are derived from		
		ectoderm mesoderm	(B) (D)	endoderm all of the above
103.	Graafia	n follicle is found in the ovar	y of	
	` ,	rat fish		frog lizard
104.	Binom	ial nomenclature was founded	d by	
		C. Darwin C. Linnaeus	(B) (D)	G. Mendel L. Pasteur
105.	"Portu	guese man of war" is		
	(A) (C)	Portuguese soldier insect	(B) sp (D) po	onge olymorphic, colonial coelenterate
106.	Pluteu	s larva of Echinodermata bel	ongs to th	ne class
		holothuroidea asteroidea	(B) (D	•

107.	"Venus flower basket" is an example of the phylum			ohylum
	, ,	rotifera echinodermata	(B) (D)	
108.	Which	one of the following is a limbles	ss amp	ohibian?
	(A) (C)	Hyla Ichthyophus	(B) (D)	<u> </u>
109.	Bat bel	longs to the class		
	(A) (C)		(B) (D)	prototheria chiroptera
110.	Sleeping sickness of Africa is transmitted by			
	(A) (C)		(B) (D)	
111.	Kala az	ar disease is caused by		
		trypanosoma leishmania	(B) (D)	giardia monocysts
112.	Obelia	colony is		
	(A) (C)	monomorphic trimorphic	(B) (D)	•
113.	To com	plete life cycle, the tape worm re	quires	3
	(A) (C)	snail man	(B) (D)	pig fish
114.	Haemoo	coel of an insect is actually a		
	(A) (C)	modified blood vessel pseudocoelom	(B) (D)	true coelom schizocoelom

15.	Study of	f mouth parts of insects illustrate	s	
	(A) (C)	homologous organs evolution	(B) (D)	adaptive radiation retrogression
116.	A wood	boring mollusk is		
		Patella Limax	(B) (D)	Teredo Chiton
117.	Indian I	Pearl Oyster is the common name	e of	
	(A) (C)	Mytilus Pinctada		Pecten Unio
118.	Aristotl	le's Lantern is found in		
		sea-anemone ophiothrix		sea-urchin Asterias
119.	Notoch	nord is restricted to tail region on	ly in	
	(A) (C)	hemichordata tunicata	(B) (D)	cephalochordata pisces
120.	Parenta	al care is exhibited by the fish		
	(A) (C)	Hippocampus Echeneis		Exocoetus Eel
121.	Anadr	omous fishes migrate from		
		sea to river both ways	(B) (D)	river to sea stream to river
122.	Metan	norphosis of frog's tadpole is ini	tiated	by the gland
	(A) (C)) thymus) adrenal	(B)	

123.	Paedog	amy is seen in		
	` ′	Plasmodium Actinophrys	. ,	Entamoeba Paramecium
124.	The cla	ssification of reptiles is based or	n	
		body armature temporal vacuity	(B) (D)	habitat reproductive pattern
125.	5. In which one of the following is there one ovary?			
	(A) (C)	Mammal Amphibia	(B) (D)	-
126.	Poisono	ous snakes fangs are modified		
	` ,	mandibular teeth palatine teeth	(B) (D)	maxillary teeth canine
127.	In spon	ges gemmules are		
		asexually produced external busexually produced internal bud	ıds ls	
128.	The "fo	orerunner" of the thyroid gland o	f verte	brates is seen in Amphioxus as
		velum hatchkets pitt	(B) (D)	
129.		ich one of the following or orphosis?	loes o	ne come across retrogressive
	(A) (C)	Amphibian tadpole Insect caterpillar	(B) (D)	Ascidian tadpole Crustacean nauplius
130.	In the s	sucker fish, which of the following	ng is m	odified into sucker?
	(A) (C)	Pectoral fin Posterior dorsal fin	(B) (D)	Anterior dorsal fin Caudal fin

131.	Excreto	ry organs of Cockroach		
	(A) (C)	malphigian tubules nephridia	(B) (D)	
132.	Amoebi	c dysentery is caused by		
	(A) (C)	E. coli All the species of Entamoeba		E. histolitica Entamoeba gingivalis
133.	Sponge	s are		
	(A) (C)	diploblastic triploblastic	(B) (D)	haploblastic none of the above
134.	Acroso	me in sperm is secreted by		
	(A) (C)	endoplasmic reticulum mitochondria	(B) (D)	- ·
135.	The cel	Il that is concerned with excretion	n is	
	(A) (C)	nematoblast chromatophores	(B) (D)	flame cell None of the above
136.	The lay	ver from which gametes are form	ed is	
	(A) (C)	glandular epithelium columnar epithelium	(B) (D)	
137.	The bo	one cells are connected with each	other	through
	(A) (C)			canaliculi matrix
138.	The pa	thogenic organisms of the infect	ted per	son are destroyed by the action of
	(A) (C)		(B) (D)	

139.	The gro	up Amniota includes		
	(A) (B) (C) (D)	fishes. amphibians and reptiles amphibians, reptiles and birds reptiles, birds and mammals none of the above		
140.	From th	e end of the Triassic to the Creta	ceous	period, the earth was ruled by
	(A) (C)	mammals dinosaurs	(B) (D)	cotylosaurs eurypetrids
141.	Saliva f	lows at the sight of the food. Thi	s actio	on is
	(A) (C)		(B) (D)	_
142.	The aci	d that is secreted in the stomach	is	
	` '	HCl H ₂ CO ₃	(B) (D)	H ₂ SO ₄ HNO ₃
143.	Blood o	lotting requires vitamin		
	(A) (C)		(B) (D)	B K
144.	Blood o	clot inside blood vessels is preven	nted b	у
		heparin thrombin	(B) (D)	fibrinogen prothrombin
145.	Nissil's	granules inside the nerve cells a	ire ma	de up of
	(A) (C)	DNA carbohydrates	(B) (D)	proteins RNA
146.	Aphids	are		
	(A) (C)	insect pests bacterial pests	(B) (D)	fungal pests viral pests

147. Sex –	linked genes	are present in
	•	

(A) autosomes

- (B) X chromosomes
- (C) mitochondrial DNA
- (D) chloroplast DNA

148. The cycle of Ross refers to the

- (A) cyclic changes in the contractile vacuole of Paramecium
- (B) life cycle of trypanosoma
- (C) life cycle of plasmodium in man
- (D) life cycle of plasmodium in mosquito

149. A food web consists of

- (A) single food chain
- (B) two separate linear food chains
- (C) more than one interconnected food chain
- (D) prey-predator food chain
- 150. The part of the ear involved in balancing is
 - (A) utriculus

(B) cochlea

(C) sacculus

(D) semicircular canals
