D-109

Domain Knowledge Test-2022 Zoology

OMR Sr. No	Booklet Sr. No		
Time: 60 Minutes	Total Questions: 50	Max Marks: 100	
Roll No. (In figure)	(in words)		
Signature of Candidate		Signature of Invigilator	

IMPORTANT DO NOT OPEN THE BOOKLET UNLESS YOU ARE ASKED TO DO SO FIRST READ FOLLOWING INSTRUCTIONS CAREFULLY

- 1. The candidate will fill up required particulars including his/her roll no. and signature on the OMR sheet with ball point pen (Black/Blue) in the appropriate boxes.
- 2. Question booklet and OMR sheet will be distributed to the candidates ten minutes before the commencement of the test.
- 3. Immediately on opening the question-booklet, the candidate should check the booklet and ensure that it contains 50 multiple choice objective type questions (Sr. No. 1 to 50) and the OMR Sheet (Answer-Sheet) for answers and that none question is missing. Discrepancy, if any, should be reported by the candidate to the invigilator within 5 (five) minutes of the opening of the question booklet. If deem fit, a correct question booklet/OMR sheet shall be supplied.
- 4. For each question, four suggested answers a, b, c, d are given. The candidate has to choose only one answer which he/she considers the correct or the most appropriate one. If candidate darkens more than one circle or cutting/overwriting/erasing putting of white fluid or any other chemicals on OMR Sheet, then such answer(s) shall not be evaluated.
- 5. The answer should be marked by darkening appropriate circle provided in front of the concerned serial number, with **black/blue ball point pen only. Use of pencil is not allowed.** For instance, while answering the Question No. 26 of the question booklet, the correct answer **a** or **b** or **c** or **d** at Serial No. 26 of OMR sheet should only be darkened.
- 6. Each correct answer will be awarded 02 marks. There will be NEGATIVE marking of 0.25% marks for each wrong answer in the Test.
- 7. The candidate should be careful in handling the question-paper and in darkening the responses on the OMR Sheet. The second question booklet/OMR sheet will not be supplied in any case.
- 8. Bringing of <u>in-criminal</u> materials, electronic gadgets/devices including cell phone and calculators in the premises of the examination centre is strictly prohibited. Possessing of in-criminal materials, electronic gadgets/devices and any other aiding material in the examination hall will be a serious offence and will attract the cancellation of your candidature.
- 9. The candidate will not be permitted to leave the examination hall before the conclusion of the test. The candidate should make sure that question-booklet (including OMR sheet) is handed over to the invigilator before leaving the examination hall at the end of the test, failing which a case of use of unfair-means/misbehaviour will be registered against him/her, in addition to lodging of an FIR with the police. Further, OMR-sheet of such a candidate will not be evaluated.
- 10. The candidate can do rough-work on the back of the title cover of question booklet. **Rough-work on OMR sheet is strictly prohibited.**

	Bo a)	ok 'Philosophic Zoologque' was pul Mendel	blished in 1809. Who was the author of book? b) Lamarck
	c)	Darwin	d) Weisman
2.	Wh	nich Era was known as golden period	d for Dinosaurs?
	a)	Mesozoic era	b) Proterozoic era
	c)	Coenozoic era	d) Palaeozoic era
3.	Ind	lia is located under following zooged	ographical realm:
	a)	Oriental realm	b) Ethiopean realm
	c)	Palaearctic realm	d) Neotropical realm
4. /	Aar	dvark, Nautilus, Tuatara, Koala and	Red Panda are examples of
	a)	Living fossils	b) Fossils
	c)	Connecting links	d) Extinct species
5. In biological clock, 'circadian rhythm' is term used for			
	a)	12 days	b) 24 hrs
	c)	24 days	d) 12 hrs
6. V	Vhi	ch bird travel longest distance durin	g migration?
	a)	Mallard	b) Night hawk
	c)	Arctic tern	d) Himalayan geese
7. T	he	scientist associated with classical co	onditioning:
	a)	Niko Tinbergen	b) J. Romanes
	c)	Ivan P. Pavlov	d) Konard Lorenz
6. W	a) c) Whi a) c) The a)	12 days 24 days ch bird travel longest distance durin Mallard Arctic tern scientist associated with classical co	b) 24 hrs d) 12 hrs g migration? b) Night hawk d) Himalayan geese onditioning: b) J. Romanes

8.	8. Promiscuous mating occurs in			
	a)	Gibbon	b) Geese	
	c)	Eagle	d) Chimpanzees	
9.	Horse	belongs to which of the following	order?	
	a)	Carnivora	b) Perissodactyle	
	c)	Proboscidea	d) Artiodactyla	
10. The level at which the species are characterized and named, is called:				
	a)	Gamma taxonomy	b) Alpha taxonomy	
	c)	Cladistic taxonomy	d) Beta taxonomy	
11. Which of the following is an egg laying mammal?			g mammal?	
	a)	Didelphys	b) Sorex	
	c)	Macropus	d) Ornithorhynchus	
		ene Muscular dystrophy is a sex-ling rier and mildly affected. Why?	nked recessive disorder is common in boys, girls	
	b)		ress such Y linked recessive disorder is common in males than compared to females	
13. (3. Coelom when derived from blastocoel is called:			
	a)	Schizocoel	b) Haemocoel	
	c)	Enterocoel	d) Pseudocoel	
14. (Corpo	ra cardiaca is:		
	a)	Salivary glands of Insects	b) Excretory organs of Insects	
	c)	Endocrine organs of Insects	d) None of these	
15. 1	Blood	pigment in Scorpion		
	a)	Gamaglobin	b) Erythrocynin	
	c)	Haemocynin	d) Haemoglobin	
16. '	Which	one is a connecting link between	Annelida and Mollusca?	
	a)	Peripatus	b) Neopilina	
	c)	Lymnaea	d) Nautilus	

17.	17. Laurer's canal is present in			
	a)	Taenia	b) Ascaris	
	c)	Fasciola	d) None of these	
18.	'True	e Horns' are found in		
	a)	Rhinoceros	b) Giraffes	
	c)	Deer	d) Goat	
19.	Oeso	phagus in adult vertebrates is der	rived from	
	a)	Hind gut	b) Fore gut	
	c)	Mid gut	d) Primitive gut	
20.	Wolf	fian body is		
	a)	Pronephros	b) Archinephros	
	c)	Mesonephros	d) Metanephros	
21.	In po	lylecithal eggs, cleavage is		
	a)	Superficial	b) Equal holoblastic	
	c)	Meroblastic and discoidal	d) Unequal holoblastic	
22.	22. In birds, butterflies and moths sex determination mechanism is			
	a)	ZZ-ZW	b) XX-XO	
	c)	X/A Ratio	d) XX-XY	
23. Kappa particles are associated with				
	a)	Mitochondria	b) Drosophila	
	c)	Paramoecium- killer strain	d) Chlamydomonas	
24. Which one of these phases longest in interphase?				
	a)	G2 (second gap period)	b) Synthetic phase	
	c)	G1 (first gap period)	d) All of these are of same duration	
25.	Jacob	oson's organ in amphibia is know	n as	
	a)	Temporal brain axis	b) Testicular epidydimal plexus	
	c)	Gastrointestinal plexus	d) Vemero nasal organ	

	a)	Fenestra ovalis	b) Movable pinna
	c)	Three semi circular canals	d) Tympanic membrane
27.	Matc	th the following	
	Colur		Column II
A	A. Ct	enidium	1. Termites
Ē	3. So	cial incest	2. Neries
(C. Tri	iploblastic meteorically segme	ented 3. Taenia solium
Ι	O. Tr	ochophore larva	4. Monopectine gill
E	E. M	ehli's gland	5. Sea mouse
a	a) A	-2, B-5, C-4, D-1, E-3	b) A-4, B-1, C-5, D-2, E-3
c	e) A	-3, B-4, C-5, D-1, E-2	d) A-1, B-5, C-2, D-3, E-4
28. N	Maine	e Coon, Ragdoll and Somali a	re the breeds of:
8	a) do	gs	b) cats
	c) ele	ephants	d) None
29. V	Why	does the female mosquito sucl	c blood?
8	a) Fo	r spreading Malaria	b) For generating infection
(c) To	save her own life	d) To reproduce eggs
30.	Whic	ch of the following has the large	gest brain in proportion to its body size?
a	ı) Ar	nt	b) Elephant
c	c) Dolphin d) Human Being		d) Human Being
31.	Whic	ch one of the following is an e	gg-laying mammal?
a)) Moi	ngoose	b) Whale
c)) Plat	ypus	d) Mole
32. C	32. Characteristics that distinguish arthropods from annelids and molluses are		
P	. abs	sence of a trochophore larva.	
Ç	Q. an external skeleton made of chitin		
R	R. subdivision of the legs into movable segments.		
S	S. dis	stinct mandibles.	
a) P a	nd Q	b) Q and R
c) P,E	and R	d) P,Q, R and S

26. Hearing is better in rabbit than frog due to

33.	3. Which of the following statements are correct?			
	P. The first eukaryotes appeared 1.5 billion years ago.			
	Q. The protozoans that cause malaria in human are sporozoans.			
	R. Amoebas have a flagellated phase in their life cycle.			
	S. Ciliates such as paramecium di	fer from all other protozoans in having two types of nuclei.		
	a) P and R	b) Q and S		
	c) P,Q and S	d) P,Q,R and S		
34.	Choose the mismatch			
	Feature	Example		
	a) Bilateral symmetry	fish		
	b) First triploblastic	flatworms		
	c) Free-living flatworm	planaria		
	d) Radial symmetry	larvae of echinoderm		
35.	Chordae tendinae is occur in			
	a) Vein	b) Auricles wall		
	c) Ventricles of heart	d) Truncus arteriosus		
36.	6. When was the UNESCO launched "Human and the Biosphere" program?			
	a) 1981	b) 1975		
	c) 1971	d) 1983		
37.	7. Bhopal Gas tragedy caused by leakage of			
	a) Isocyanic acid	b) Methyl isocyanate		
	c) Isopropyl thiocyanate	d) Chlorofluorocarbon		
88.	8. Minamata disease caused by pollution of water by			
	a) Zink	b) Oil spill out in sea		
	c) Mercury	d) Copper isocyanides		
39.	9. The most common plasmid vector used in genetic engineering is			
	a) pBR328	b) pBR335		
	c) pBR325	d) pBR322		
10.	Which one of the following is not	a functional protein?		
	a) Urease	b) Invertase		
	c) Amylase	d) Keratin		

41. Ki67 is molecular diagnostic target for
a) Gastrointestinal problem b) Cancer
c) Hyperthyroidism d) Headache and nausea
42. The genes family of umu C, umu D and Rec A are involving in the following process:
a) SOS DNA repair
b) Recombinational repair
c) Transcription
d) Reverse transcription
43. Which is more abundant in R.E.R. (Rough Endoplasmic Reticulum)?
a) Annulate E.R.
b) Vesicle
c) Cisternae
d) Both b & c
44. The concept of interferons given by
a) Paulberg and Jakobson
b) Morgan and Knoll
c) Isaac and Lindenmann
d) Wilson and Walker
45. Teeth of human are
a) Acrodont, monodont, homodont
b) Thecodont, polyphyodont, heterodont
c) Thecodont, diphyodont, heterodont
d) Acrodont, polyphyodont, homodont
46. Bombykol is
a) Hormone b) Enzyme
c) Protein d) Pheromone
47. Role of GLP-1 (Glucagon like peptide-1) is
a) Production of Glucagon.
b) Stimulation of Glucose production.
c) Stimulation of Pancreatic insulin secretion.
d) Stimulation and storage of protein and lipid through suppress metabolism

48. Insulin like Growth factor-1 (IGF-1) is secreted from	
a) Pancreas	b) Stomach	
b) Liver	d) Intestine	
49. Which one of the animals extinct recently?		
a) Leopard	b) Mammoth	
c) Dodo	d) Pterodactyl	
50. Which one of these layers has highest biota?		
a) Metalimnion	b) Aphotic zone	
c) Epilimnion	d) Hypolimnion	