## VIDYASAGAR UNIVERSITY MIDNAPORE

## **COMMON ENTRANCE TEST FOR PG ADMISSION, 2019**

Question Booklet No. 2719406

Full Marks: 200

Subject: **ZOOLOGY** 

Question Booklet Series: A

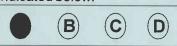
Subject Code No.: 27

Answer all the questions. Each question has the same weightage.

Read the following instructions carefully before you start answering.

## **INSTRUCTIONS**

1. The question Booklet is printed in four Series e.g. (A), (B), (C) and (D). The candidate has to indicate the Series of the question booklet in the space provided in the OMR Answer Sheet . For example, if the candidate gets Series (A) booklet, he / she has to indicate on the front side of the OMR Answer Sheet with Black ink ball point pen only as indicated below:



- 2. There are 50 questions inside this question booklet. Immediately after you have been instructed to open this question booklet, ensure that any page / question is not missing / not printed / torn /repeated. In case you find any defect anywhere in the question booklet, immediately get it replaced by the Invigilator.
- 3. Each question carries 4 marks. 1(one) mark will be deducted for each wrong answer(negative marking).
- 4. Write your Form No and put signature in the space provided.
- 5. Before answering, write down the necessary information on the OMR Answer Sheet as per your Application Form and Admit Card in the specific space provided.
- 6. With each question you will find 4 possible answers marked by the letters A, B, C & D. Read each question carefully and find out which answer, according to you, is correct / most appropriate / best. Indicate your answer by darkening the appropriate circle completely in the OMR Answer Sheet corresponding to the question. For marking answers, use black ink ball pen only. If 'B' is the correct answer in a case, mark as below:
- 7. Do not fold or make any stray marks on the OMR Answer Sheet.
- 8. You can use the blank space of the last page for rough work. Do not tear it off from the Question Booklet.
- 9. After the examination has been over, you must submit OMR Answer Sheet to the Invigilator.
- 10. OMR Answer Sheet is designed for computer evaluation. If you do not follow the instructions given above and shown in the OMR Answer Sheet, it may make evaluation by computer difficult. Any resultant loss to the candidate on the above account shall be of the candidate only.
- 11. No candidate shall be allowed to use Mobile phone. Log tables or Calculator of any description in the examination hall / room.

1. Ram-ventilation is relate (A) Fish	ed to- (B) Bird	(C) Amphibia	(D) Reptilia	
2. Larva of sponge is know (A) Planula larva (C) Glochidium larva	n as	(B) Trochophore larva (D) Amphiblastula larva	aubstrumérou a	
3. Member of Phoronids re (A) Budding	produce asexually by (B) Transverse Fission	(C) None of these	(D) Both (A) and (B)	
4. How many types of lense (A) 3	es are present in Transmi (B) 4	ission Electron Microsco (C) 5	ope (TEM)? (D) 6	
5. Human eye acts like a (A) Endoscope	(B) Camera	(C) Telescope	(D) Microscope	
6.In Gram – staining, iodir (A) Fixative	ne is used as a (B) Mordant	(C) Solubilizer	(D) Stain	
7. In birds, the flight muscl (A) Synsacrum	es are attached to (B) Sternum	(C) Pygostyle	(D) Thoracic mass	
8. Which of the following helminth infection is not (A) Echinococcus granulosus (C) Wuchereria bancrofti.		Zoonosis? (B) Balantidium coli (D) Brugia malayi.		
9. When a parasite parasitiz	zed another parasite is ca	lled		
(A) obligatory parasite (C) hyperparasite		(B) endoparasite (D) temporary parasite		
(A) helper T-cells express (B) cytotoxic T-cells express (C) helper T-cells express (D) cytotoxic T-cells express	s surface CD8 receptor ress surface CD4 receptor s surface IgG molecule			
11. The phenomenon of sel	ective proliferation of l	B-cells in response to t	heir interaction with the	
antigen is called (A) Clonal expansion (C) Clonal proliferation		(B) Monoclonal selection (D) Clonal selection	on	
12. Choose the correct match Group I P. IgA Q. IgE R. IgG S. IgM	Group II  1. Basophils  2. δ heavy chain  3. Secretory composition  4. Pentamer  5. Crosses placenta			
(A) P-3, Q-1, R-5, S-4	(B) P-3, Q-5, R-2, S-1	(C) P-2, Q-3, R-5, S-4	(D) P-2, Q-1, R-3, S-5	
13. The following two organs are example of primary  (A) Bone marrow & Thymus  (C) Spleen & GALT		y lymphoid organs (B) Lymph nodes & Thy (D) Bone marrow & MA		

14. Which of the following (A) <i>Fasciola</i> sp.	trematode is diecious? (B) Schistosoma sp.	(C) Paragonimus sp.	(D) Heterophyes sp.
15. 'Dog Fish' belongs to - (A) Squalidae	(B) Anabantidae	(C) Cichlidae	(D) Mastacembelidae
16. What is the name of W	est Bengal state animal? ephas maximus indicus) bengalensis) ilurus viverrinus)	(c) Cremitae	(b) Mastacemochuae
17. The phrase "survival of (A) Herbert Spencer (C) chevalier de Lamar		(B) Charles Robert Da (D) Hugo de Vries	rwin
18. Members of phylum cil (A) Mating	iophora sexually reprodu (B) Binary fission	ce by process of (C) Conjugation	(D) Budding
19. Which of the following (A) An autotroph (C) An oak tree parasite		onsumer? (B) A horse parasite (D) A wolf	
20. A group of buffalo graz on the insect there. State (A) Protocooperation	zing in grassland. Due to the mode of interaction (B) Mutualism	their movement egrets between the buffalo and (C) Commensalism	are able to catch and feed degret. (D) Ammensalism
21. Megalopa is the larval f (A) Echinodermata	form of: (B) Annelida	(C) Arthropoda	(D) Mollusca
22. Which animal is represe (A) Indian rhinoceros ( (C) Sambar deer ( <i>Rusa</i>	Rhinoceros unicornis)	rey of India logo (B) Indian Gaur ( <i>Bos g</i> (D) Asiatic lion ( <i>Panth</i>	
23. Sex determination in D:  (A) Xchromosome  (C) X chromosome and		(B) Autosome (D) None of these	
24. The supercoiling of DN (A) Topoisomerase	A is relaxed by (B) DNA polymerase	(C) Ligase	(D) Helicase
25. Male sex is determined (A) sox9	in human by (B) sry	(C) both of these	(D) none of these
26. The eukaryotic chromat (A) methylase		deacetylase (D) both	acetylase and methylase
27. Autosomal dominant m (A) Bar eye	utation in Drosophila is (B) vestigial wing	(C) Scute bristle	(D) Curly wing
28. Shine Dalgarno sequeno (A) Ribosome	ce is present on (B) tRNA	(C) mRNA	(D) rRNA
29. Which of the following (A) bindin	have sperm activating pr	operty in sea urchin	(D) resact

30. Which of the following is a (A) mesoderm (C) Niewkoop center	necessary for organize	r formation  (B) dorsal lip of blastopore  (D) ectoderm	
31. Bacterial genomes is preve (A) Methylation at restriction (B) Immune mechanism (C) Nuclease resistance gen (D) Are not much effective	on sites nome	ucleases by	
32. In a stable well adapted por around mean value, such portion (A) Disease and mortality (C) Carrying capacity			in population size
33. Graft rejection does not inv (A) T cells (C) Erythrocytes	volve	(B) Macrophages (D) Polymorphonuclear leu	ikocytes
(B) Charging of serine into then incorporation thro (C) Charging of Sec into tR	NAser followed by inc tRNAser followed by ugh serine codon NAsec and then incorp tRNAser followed by	corporation through serine of modification of serine into serine serine description.	codon selenocysteine and ine codon
35. A cell undergoing meiosis are haploid. This can occur (A) Non-dysjunction during (B) Non-dysjunction during (C) Non-dysjunction during (D) Non-dysjunction during	due to: g first meiotic division g second meiotic divisi g either first or second	only on only meiotic division only	euploids, while two
respectively), the molar rat	bicarbonate buffer (pK	(a <sub>1</sub> and pKa <sub>2</sub> of carbonic aci rbonic acid] in the blood is	
37. Prior to transcription, Chrofactors in a stepwise manne activation of a chromatin lo (A) High mobility group p (C) DNA polymerase III	er. Which one of the foop?	n inactive state to an active sollowing is involved in the in  (B) Single strand DNA-bind (D) Topoisomerase I	nitial steps during
38. Split genes are present in  (A) All eukaryotes  (C) Most of eukaryotes and	d some archaebacteria	(B) Most of eukaryotes ar (D) All organisms	nd some eubacteria
39. Among the following, which (A) Asiatic Lion (Panthera (C) Indian wild ass (Equus	leo persica)	d animal- (B) Asiatic Tiger (Panthe	

feed

40. In which type of heart is (A) fish	there mixing of oxyge (B) frog	enated and deoxygenated (C) crocodile	blood? (D) all of these
41. Species that have a dibiodiversity are referred	to as		
(A) exotics	(B) primary producer	(C) archaea	(D) keystone species
42. Biodiversity hot spots ar (A) at equator (C) between tropics	e mainly located	(B) in temperate region (D) in artic region.	ıs
43. The simple eyes of insec (A) ocelli	ets are (B) apposition eyes	(C) rhabdoms	(D) ommatidia
44. If insufficient PTH is pro (A) reduced growth in ch (B) tetany, where the boo (C) osteoporosis (D) exophthalmic goitre	ildhood or parathyroid	d dwarfism	in
45. In conjugation of the cili	ate, Paramecium,	are exchan	nged.
(A) macronuclei	(B) heterocysts	(C) zoogonia	(D) micronuclei
(A) smooth ER  47. In a salt marsh, the meio (A) are represented by cr (B) include fish (C) are very small animal	of these compounds as  (B) Golgi apparatus  fauna  abs and lobsters	an initial step in their exc. (C) mitochondrion	
(D) are the algae			
48. Birds with average-sized same population with local (A) the founder effect (C) artificial selection			
49. Which is the correct orde (A) Glucuronate, hyaluro (B) Hyaluronate, glucuro (C) GAG chains, hyaluro (D) Glucuronate, hyaluro	nate, proteoglycans, C nate, GAG chains, pro nate, glucuronate, pro	GAG oteoglycans teoglycans	
50. Lectotype is -  (A) Duplicate of holotype (B) Specimen described a  (C) Specimen cited by au  (D) Specimen selected fr	along with holotype othor without making o	one holotype or nomenclature type when	n there is no holotype