

## Ph.D. Entrance Exam 2022

<b>Course</b>	Ph.D.
<b>Branch</b>	Zoology
<b>Subject Name</b>	Zoology

SN	Question Text	Option 1	Option 2	Option 3	Option 4
1	The format of thesis writing is the same as in	Writing of Seminar representation	Preparation of research paper/article	A research dissertation	Presenting a workshop/conference paper
2	What is the function of copper-T?	stops oblituation of the blastocoel	checks mutation	stops fertilization	stops zygote formation
3	A 'breath test' used by traffic police to check drunken driving uses	turmeric on filter paper	silica gel coated with silver nitrate	potassium perma-nanganate-sulphuric acid	potassium dichromate-sulphuric acid
4	The blue baby pollution disease is due to the excessive presence of which of the following in drinking water	Arsenic	Fluoride	Chloride	Nitrate
5	A group of interbreeding organisms with free gene flow is called.	Class	Family	Species	Genus
6	The term genome is used for-	Polyploids set of Chromosome	Diploid set of Chromosome	Haploid set of Chromosome	Triploid set of Chromosome
7	Which among the following is an endangered species?	Black Buck	Snow Leopard	Asiatic Lion	All of the above
8	Locomotory organs of protozoa are -	Cilia, Flagella and parapodia	Flagella and pseudopodia only	Flagella, cilia and tube feet	Cilia, flagella and pseudopodia
9	"Pearl Oyster" is -	Asterias	Mytelus	Pila	Pinctada
10	Which of the following includes the Extinct Fishes?	Placoderms	Osteichthyes	Chondrichthyes	Holocephali
11	The behavior in which one animal is aggressive or attacks another animal, the other responds by returning the aggression or submitting is called:	Agnostic	Hierarchy	Territory	Altruism
12	The proximate causes of behavior are interactions with the environment, but behavior is ultimately shaped by	sexuality	the nervous system	pheromones	evolution
13	DNA can be synthesized from RNA using:	DNA-dependent RNA polymerase	RNA-dependent RNA polymerase	RNA-dependent DNA polymerase	DNA-dependent DNA polymerase

14	Research is	Searching again and again	Finding solution to any problem	Working in a scientific way to search for truth of any problem	None of the above
15	Discussion Methods can be used where	Topic is very difficult	Topic is easy	Topic is different	All of the above
16	The essential qualities of a researcher are	Spirit of free enquiry	Reliance on observation and evidence	Systematization or theorizing of knowledge	All the above
17	Which of the following is not a data-collection method?	Research questions	Unstructured interviewing	Postal survey questionnaires	Participant observation
18	Survey is always a----- study	Field	Laboratory	Office	Class room
19	Bibliography means	Foot Note	Quotations	List of Books referred	Biography
20	Which of the following is an initial mandatory requirement for Pursuing research?	Developing a research design	Formulating a research question	Deciding about the data analysis procedure	Formulating a research hypothesis
21	The first page of the research report is	Appendix	Bibliography	Index	Title page
22	Mean, Median and Mode are :	Measures of deviation	Ways of sampling	Measures of control tendency	None of the above
23	Research method is a part of.....	Problem	Experiment	Research Techniques	Research methodology
24	The longest stage in the cell cycle is	Interphase	Anaphase	Metaphase	None of the above
25	In males, the gene for colour blindness is located in-	x-chromosome	Y-chromosome	Both X and Y chromosome	Either X-chromosome or Y-chromosome
26	The alternate form from of a gene is	Alternate type	Recessive character	Dominant character	Allele
27	PCR is used for	Reverse transcribing RNA into DNA	Digesting proteins	Digesting DNA	Amplifying DNA
28	What is collagen ?	Fat	Protein	Carbohydrate	None of the above
29	What is the gap junction in nerves called ?	Chemical synapse	Electrical synapse	Post synapse	Pre synapse
30	Sperms are produced in	Vas deferens	Spermatocytes	Seminiferous tubules	None of above
31	Silk is produced by	Cocoon	Adult moth	Larva	Larva and adult moth
32	Anticodon of t- RNA is complementary to codon of....	DNA	r-RNA	m-RNA	Hn-RNA
33	Cloning vectors are DNA molecules that can carry .....	Foreign DNA fragment	Chromosome	Probes	Foreign protein
34	The radial canal of sycon is lined with _____ cells	Amoebocytes	Choanocytes	Myocytes	Scleroblasts
35	Kupffer cells are present in	Liver	pancreas	tongue	salivary glands
36	Head of the Cockroach is formed by the fusion of ..... segments	6	4	2	8
37	Which of the following is produced with the combination of apoenzyme and coenzyme?	holoenzyme	enzyme - substrate complex	prosthetic group	enzyme -product complex
38	In Drosophila the chromosomal type of sex determination is .	XX-XO	ZZ-ZW	XX-XY	Haploid -diploid
39	Chocolates can be bad for health because of high content of	Cobalt	Nickel	Zinc	Lead
40	The success of Green Revolution depends on the availability of	High Yielding Variety of seeds	Adequate irrigation facilities	Chemical fertilizers and pesticides	All of these

41	All stages in the life cycle of malarial parasite are haploid except	Sporont	Schizont	Gamout	Ookinete
42	Entamoeba histolytica was first discovered by	Craig	Lambel	Losch	Dobell
43	In man, average weight of heart is	About 310 grams	About 320 grams	About 330 grams	About 340 grams
44	Which of the following vitamins are night blindness?	Vitamin A	Vitamin B	Vitamin D	Vitamin E
45	Human cell has	21 pairs of chromosomes	22 pairs of chromosomes	23 pairs of chromosomes	24 pairs of chromosomes
46	Which are necessary for the formation of bones and teeth?	Calcium and phosphorous	Sodium and potassium	Calcium and magnesium	Calcium and sodium
47	The branch of the science dealing with the study of human skin is called	Anatomy	Dermatology	Bio-chemistry	Physiology
48	Sporogony of malaria parasite occurs in	Salivary glands of mosquito	Stomach wall of mosquito	Liver of man	RBC of man
49	Fresh foods and fruits contain more of	Carbohydrates	Fats	Proteins	Vitamins
50	Entamoeba histolytica was first discovered by	Craig	Lambel	Losch	Dobell