REV-01 BSZ/01/05

2023/06

SECOND SEMESTER (REPEAT) NON-CHORDATES-II: ANNELIDA TO ECHINODERMATA BSZ-201 [USE OMR SHEET FOR OBJECTIVE PART]

B.Sc. ZOOLOGY

Du	ration: 3 hrs.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Full Marks: 70		
(Objective)						
Tir	Marks: 20					
Ch	oose the correct answer from the follo	ıg:	1×20=20			
1.	Book-lungs are respiratory organs, which a a. Onychophores c. Insects	ь.	ound in: Arachnids Crustaceans			
2.	Basic unit of insect eye is: a. Retina c. Corneal facet		Rhabdome Ommatidium			
3.	The freshwater species of Echinodermata is a. Brittle star c. Sea lily	b.	Star-fish None of these			
4.	Respiratory tree is found in: a. Sea cucumberc. Starfish		Sea Lily Feather star			
5.	Echinodermata are: a. Protostome c. Deuterostome		Schizocoelous All of the above			
6.	The total number of oesophageal pouches i a. 1 c. 3	b.	Globosa snail is: 2 4	¥		
7.	The ctenidum lamellae is made up ofa. 2 c. 4	116	3			
8.	Overlapping shell like a knight's armour pl be found: a. Unio		, the following specimen Murex	of molluse can		
	c. Pila		Chiton			
9.	The pharyngeal nephridia in Earthworm is a. 3-4-5 segment c. 5-6-7 segment	b.	sent in: 4-5-6 segment 6-7-8 segment			
10.	Dissimilar segments in different organs is a a. Homonomous c. Complete	b.	t of: Heternomous External			

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11.	'Hexapoda' is another name of: a. Crustacea c. Insecta		Arachnida All of the above
12.	Animals of which set belongs to same phylua. Scorpion, cockroach, prawn c. Scorpion, cockroach, earthworm	b.	Leech, oyster, scorpion Earthworm, leech, cancer
13.	Fossil arthropods are: a. Trilobites c. Tardigrades		Chelicerata Crustacea
14.	Sea stars feed by:a. Injecting poison that digests the preyc. Chewing their prey with jaws and teeth		Everting their stomach to digest prey Squeezing their prey until it dies
15.	In which class of Echinodermata stalk is fou a. Asteroidea c. Ophiroidea	b.	for attachment with substratum? Crinoidea Echinoidea
16.	A cavity with elevation in Apple snail is call a. Odontophore c. Buccal mass	b.	Retractor cavity Ctenidium
17.	Mucus in saliva of Apple snail does not helpa. Digestion of starchc. Protection of inner layer	b.	Transport of food Protection of radula
18.	The siphon during pulmonary respiration of facilitation of respiration: a. Below water surface c. Horizontally along the body axis	b.	s up into the following layer for better Above water surface Anteriorly inside the body
19.	Torsion has a rotational axis of: a. 90 c. 180	b.	120 360
20.	Which among these is not a part of coelomic a. Mesocoel c. Mirocoel	b.	vitites for metamerism? Metacoel Protocoel

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$\left(\underline{\text{Descriptive}} \right)$

Time: 2 hr. 30 mins.		
	[Answer question no.1 & any four (4) from the rest]	
1.	What is metamorphosis? Explain the different types of metamorphosis found in insects.	2+8=10
2.	Describe water vascular systems of starfish with labeled diagram.	5+5=10
3.	Write six important characters of phylum Echinodermata. Classify Phylum Echinodermata up to class with example.	3+7=10
4.	Write six different features of <i>Hirudinaria</i> . Also explain the parasitic adaptation of leech.	6+4=1(
5.	Explain the complete respiratory system of Pila globosa.	10
6.	Explain the process of torsion with diagrammatic representation.	10
7.	What is metamerism? Describe all the theories associated with this phenomenon.	2+8=10
8.	Write short notes on:a) Social organization of honey bee.b) Piercing and sucking mouth parts of insect.	5+5=10