(6 pa	ges) Reg. No.:
Cod	le No. : 5443 Sub. Code : ZZOM 11
Cou	Sub. Code : 220.11
M.S	c. (CBCS) DEGREE EXAMINATION, APRIL 2023
	First Semester
	Zoology-Core
STR	UCTURE AND FUNCTION OF INVERTEBRATES
	(For those who joined in July 2021 onwards)
Time	: Three hours Maximum: 75 marks
	PART A — $(10 \times 1 = 10 \text{ marks})$
	Answer ALL questions.
	Choose the correct answer:
1.	Organizing taxonomic information in logical classification is called ———
	ciassification is called ———
	(a) systematic (b) phenetic
	(c) phylogenetic (d) dendogram
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6.	Which of the following pigment imparts green colour to the blood?
	(a) Haemoglobin
	(b) Haemocyanin
	(c) Chlorocruorin
	(d) None of these
7.	Collection of nerve cell bodies inside the CNS are called
	(a) nerves (b) ganglia
	(c) tracts (d) none of these
8.	Terminal ganglionic mass in Hirudinaria is formed
0.	by the fusion of ————of embryonic ganglia
	(a) four (b) three
	(c) two (d) seven
9.	Miracidium larva belong to which phylum
	(a) Arthropoda
	(b) Coelenterata
	(c) Mollusca
ξ.	(d) Platyhelminthes
10.	Bipinnaria larva is the free-swimming larva of
	(a) Antedon (b) Star-fish

(d)

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(c)

2. New systematic differs from classical systematic in (a) experimental taxonomy biochemical and cytotaxonomy (c) all biological parameters (d) numerical taxonomy 3. Simplest mode of locomotion is swimming (b) creeping (d) (c) floating walking 4. The digestion in Sponges is Extracellular Intercellular Intracellular Holozoic (d) The subclass of Bivalvia in which gills degenerate and respiratory function is entirely taken up by the mantle (a) Protobranchia (b) Septibranchia Filibranchia (c) Eulamellibranchia (d) Code No.: 5443 Page 2 PART B —  $(5 \times 5 = 25 \text{ marks})$ Answer ALL questions, choosing either (a) or (b). Each answer should not exceed 250 words 11. (a) Differentiate the Acoelomates and Pseudocoelomates. Or Explain the species concept. 12. (a) Describe the locomotory organelle in amoeba Or (b) Illustrate the hydrostatic movements in coelenterates. 13. (a) List out the types of lungs Or (b) Explain the excretory system in Arthropods. 14. Write the cockroach nervous system. (a) OrExplain the earthworm nervous system.

 (a) Illustrate the evolutionary significance of larval forms.

Or

(b) Write the distinctive characters of phylum Mesozoa.

PART C - (5  $\times$  8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words

16. (a) Discuss the Binomial nomenclature.

Or

- (b) Differentiate between Protostomia and Deuterostomia.
- 17. (a) Describe the filter feeding mechanism in Polychaeta.

Or

- (b) Illustrate the feeding mechanism in echinoderms.
- 18. (a) Enumerate the gills in Arthropoda.

Or

(b) Elucidate about Nephridia

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19. (a) Specify the nervous system of Nereis

Or

- (b) Discuss the trends in neural evolution
- 20. (a) Illustrate the larval forms of parasites

Or

(b) Describe the salient features and affinities of Endoprocta.

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