REV-01 BSZ/26/31

> B.Sc. ZOOLOGY FIRST SEMESTER **BIOLOGY OF NON-CHORDATES** BSZ-101

[USE OMR SHEET FOR OBJECTIVE PART]

SET

Full Marks: 70

2023/12

Duration: 3 hrs.

Time: 30 mins.

a. Malacology

a. Ectodermis c. Endodermis

a. Urea

c. Ammonia

c. Helminthology

Shell of mollusca is secreted by:

10. Excretory products of Echinodermata is:

Objective

Marks: 20

1×20=20

Choose the correct answer from the following: 1. This is the basis on which female Ascaris can be identified. b. Presence of post-anal and pre-anal a. Two spicules found at the posterior papillae end d. Common cloacal aperture c. Straight posterior end 2. All round worms differ from flat worms in having: b. Pseudocoel a. Longitudinal nerve cord d. Metamorphosis in their life history c. Segmented body Presence of coelom and metamerism are the most important characters in: a. Helminths b. Arthropods d. Coelentrates c. Annelids 4. The body cavity of *Hirudo* is filled with: b. Parenchyma tissue a. Connective tissue d. Coelomic fluid c. Botryoidal tissue 5. The respiratory pigment present in insect is: a. Haemoglobin b. Haemoerythrin d. None of these c. Haemocyanin 6. Complete metamorphosis occurs in: a. Silver fish b. Locust c. Bedbug d. Mosquitoes 7. Which one of the following groups comes under social insects? a. Cockroaches b. Housefly c. Termites d. Mosquitoes 8. The study of Mollusca is generally known as:

b. Concology

b. Mantle

d. Herpetology

d. All of these

d. Uric acid

b. Urea and creatine

te individuals forming a group is a part of theory n origin. b. Colonial d. None of the above	
al science that studies the distinctive characteristics of species and o other species through time is called: b. Classification d. None of the above	2. T h a
trition observed in Protozoa? b. Holophytic d. All of them	3. V a
lles pseudopodia or flagella or both is found in subphylum b. Cnidospora d. Sporozoa	4. T
orifera is indirect through a larval stage called: b. Trocophore d. Planula	5. T a
e of medusa in Cnidaria has short and slender: b. Flagella d. Tentacles	6. T a c
belongs toclass of Coelenterata. b. Hydrozoa d. None of the above	7. T
true for a helminth worm? il b. Definite circulatory system e of body d. All of them	a
is characterized by protozoan flagellate parasite: ca b. Giardia intestinalis d. Plasmodium vivax	
b. Coral bleaching d. None of the above	e

USTM/COE/R-01

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(Descriptive)

Time: 2 hr. 30 mins.

[Answer question no.1 & any four (4) from the rest] 1. Write short notes on: 5+5=10 a) Polymorphism in Cnidaria b) Pathogenicity of at least two Protozoans 2. Write the general features and classification of the phylum Cnidaria. 10 3. Write the general features and classification of the phylum Protozoa. 10 4. Write down at least ten general features of the Phylum Ctenophora. 10 5. What is metamorphosis? What are the different types of 2+6+2=10 metamorphosis found in Arthropoda? Give necessary diagrams. 6. Write the general characteristic of the Phylum Nematoda. 10 7. Explain the mechanism of torsion & coiling in Gastropoda with 8+2=10necessary diagram. 8. Discuss the water-vascular system and its importance in 10 Echinodermata.

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Marks: 50