

B.Sc. ZOOLOGY
FIRST SEMESTER (REPEAT)
NON-CHORDATES: PROTISTA TO PSEUDOCELOMATES
BSZ-101
[USE OMR FOR OBJECTIVE PART]

SET
A

Duration: 3 hrs.

Full Marks: 70

(Objective)

Time: 30 mins.

Marks: 20

Choose the correct answer from the following:

1 × 20 = 20

- In which category of spicules does calthrops falls into?
 - Tetraxon
 - Monaxon
 - Polyaxon
 - Triaxon
- What class of sponges has calcareous spicules?
 - Hexactinellida
 - Calcarea
 - Desmospongiae
 - Scyphozoa
- Which among these is the most developed canal system of Poriferans?
 - Sycon
 - Leucon
 - Ascon
 - Scypha
- What are the sensory structures for orientation in medusa?
 - Statocyst
 - Ocelli
 - Mesoglea
 - Stiletto
- What kind of symmetry is exhibited by Cnidarians?
 - Spherical
 - Radial
 - Bilateral
 - Biradial
- Which is the largest coral reef in the world?
 - Great barrier reef
 - Pulley ridge reef
 - Ghe Raja Ampat islands
 - Bahamas barrier reef
- Which among these functions as locomotory organ in Paramecium?
 - Cilia
 - Flagella
 - Pseudopodia
 - Tentacles
- Which is the disease caused by protozoans in human?
 - Dengue
 - Malaria
 - Cholera
 - Jaundice
- What is the function of Nectophore?
 - Swimming
 - Protection
 - Nutrition
 - Bearing gonads
- What is the function of cytoproct in Paramecium?
 - Ingestion
 - Egestion
 - Reproduction
 - Locomotion

11. Parthenogenesis is found in:
 - a. Rotifers
 - b. Amoeba
 - c. Paramecium
 - d. None of the above
12. Cydipped larva is the characteristics form of:
 - a. Platyhelminthes
 - b. Ctenophora
 - c. Ashelminthes
 - d. Coelentrata
13. Tentacles have colloblast in:
 - a. Coelentrata
 - b. Hydra
 - c. Ctenophora
 - d. Both a and b
14. Tegument is present in:
 - a. *T. solium*
 - b. *Ascaris*
 - c. *Fasciola*
 - d. None of the above
15. Infective stage of *W. bancrofti* is:
 - a. First stage filariform larva
 - b. Second stage filariform larva
 - c. Third stage filariform larva
 - d. Fourth stage filariform larva
16. Liver fluke is found in the:
 - a. Intestine of man
 - b. Intestine of sheep
 - c. Liver and bile duct of sheep
 - d. Liver and bile duct of man
17. Hook worm infection leads to deficiency of:
 - a. Vitamin B 12
 - b. Vitamin A
 - c. Folic acid
 - d. Both b and c
18. *Ascaris* species are commonly contracted by host via:
 - a. Faecal oral route
 - b. Respiratory route
 - c. Cutaneous route
 - d. None of the above
19. Two pairs of ventral teeth are found in the buccal capsule of:
 - a. *W. bancrofti*
 - b. *A. lumbricoides*
 - c. *N. americanus*
 - d. *A. duodenale*
20. The body symmetry of ctenophora is:
 - a. Radial symmetry
 - b. Biradial symmetry
 - c. Asymmetrical
 - d. Lateral symmetry

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(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. Discuss about the human diseases caused by protozoa. 10
2. Describe the life cycle of *Wuchereria bancrofti*. What disease is caused by *Wuchereria bancrofti*? 9+1=10
3. What is Polymorphism? Explain the various types with suitable examples and diagrams. 3+7=10
4. Write down the various structural organelles with their function of Paramecium. 10
5. Write the general characteristics of ctenophora. What are the affinities of ctenophora with other groups? 5+5=10
6. Write down about the different types of skeletal system in sponges with labeled diagrams. 10
7. Write the morphology of *Fasciola hepatica*. Explain its parasitic adaptations. 4+6=10
8. Explain the morphological features and affinities of rotifer. 5+5=10

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