No. of Printed Pages : 3

Sem-I-Zool-CC-I (Reg&Back)

2020-21

Time - 3 hours

Full Marks - 60

Answer **all groups** as per instructions. Figures in the right hand margin indicate marks. Draw labelled diagrams wherever necessary.

<u>GROUP – A</u>

1. Answer all questions or fill in the blanks as required. [1 × 8

(a) What are the photoreceptor apparatus of Euglena?

- (b) The reserve food material of Euglena is _____.
- (c) The most widely accepted theory of locomotion in Amoeba is ______.

(d) Amoeba respires through its _____.

- (e) The most active, motile and feeding form of *Entamoeba histolytica* is _____.
- (f) The malarial parasite is introduced into the blood of man as a ______.

(g) What is holozoic nutrition?

(h) What is the role of choanocytes in Sycon?

GROUP - B

- 2. Answer any eight of the following questions within two to three sentences each. $[1\frac{1}{2} \times 8]$
 - (a) What is the role of contractile apparatus in Euglena?
 - (b) What is Euglenoid movement?
 - (c) What are the pseudopodiospores in Amoeba?
 - (d) What are the three distinct forms of *Entamoeba histolytica* in its life cycle ?
 - (e) What are the various types of skeletal bodies present in Sponges?
 - (f) Differentiate between polyp and medusa of Obelia.
 - (g) What is an Atoll ?
 - (h) What is miracidium larva?
 - (i) What is hexacanth? Where it is found?
 - (j) What is Elephantiasis ?

<u>GROUP – C</u>

3. Explain any eight of the following within 75 words each.

 $[2 \times 8]$

- (a) Morphological adaptations of Helminthes for parasitic life
- (b) Rhabditiform larva

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- (c) General characteristics of phylum Nematoda with examples
- (d) Phylogenetic significance of phylum Platyhelminthes
- (e) What are the various modifications of polyps?
- (f) Economic importance of sponges
- (g) Leucon type canal system
- (h) Erythrocytic schizogony
- (i) Encystation
- (j) Why Euglena is considered as an animal?

<u>GROUP – D</u>

Answer any four questions within 500 words each.

| 4. | Discuss the asexual life cycle of <i>Plasmodium vivax</i> in man. | [6 |
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| 5. | Give an account of reproduction in Protista. | [6 |
| 6. | Discuss about the life cycle of Fasciola hepatica. | [6 |
| 7. | Give an account of metagenesis in Obelia. | [6 |
| 8. | Explain the life cycle of Wuchereria bancrofti. | [6 |
| 9. | Give an account on the reproduction and life cycle of Entamore histolytica. | eba [6 |
| 10. | Discuss the general characteristics and classification upto class | ses |
| | of phylum Porifera with examples. | [6 |