No. of Printed Pages: 3

1.

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.

GROUP - A

Ans	swer <u>all</u> questions or fill in the blanks as required. $[1 \times 8]$
(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 <i>Amoeba</i> is
(d)	Amoeba respires through its
(e)	The most active, motile and feeding form of <i>Entamoeba</i> 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?

GROUP - C

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

[2 × 8

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

(c)	General characteristics of phylum Nematoda with examp	les	
(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.		
Discuss the asexual life cycle of Plasmodium vivax in man. [[6	
Give an account of reproduction in Protista.		[6	
Discuss about the life cycle of Fasciola hepatica.		[6	
Give an account of metagenesis in Obelia.			
E	xplain the life cycle of Wuchereria bancrofti.	[6	

histolytica. [6]

10. Discuss the general characteristics and classification upto classes of phylum Porifera with examples. [6]

Give an account on the reproduction and life cycle of Entamoeba

4.

5.

6.

7.

8.

9.