2020

ZOOLOGY (Honours)

Paper : ZOOL-H-DC-1-T

[Non-Chordates I : Protists to Pseudo-coelomates]

(CBCS)

Full Marks : 25 Time : Two Hours

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

1. Answer any *eight* questions : ½×8=4

   (a) Malarial parasite completes _____ cycle in human beings. (Fill in the blank)

   (b) Locomotory organ of *Paramoecium* sp. is _____. (Fill in the blank)

   (c) Infective stage of *Entamoeba histolytica* for human beings is _____. (Fill in the blank)

   (d) The body cavity of *Ascaris* sp. is called _____. (Fill in the blank)

   (e) The skeleton of a solitary coral is called _____. (Fill in the blank)

   (f) The characteristic sense organ found in *Hormiphora* is known as _____. (Fill in the blank)

   (g) Which parasite is responsible for Liver rot?

   (h) Carl Woese system of kingdom classification was based on rRNA study. (True or False)

(i) The external skeleton of coral reef is made of _____. (Fill in the blank)

(j) A group of zooids in a polymorphic colony is called _____. (Fill in the blank)

(k) What do you mean by digenetic parasite?

(l) The idea of conversion of sol into gel and vice-versa in *Amoeba* was first given by _____. (Fill in the blank)

2. Answer any *two* questions : 2½×2=5

(a) Briefly describe about the parasitic adaptations of *Taenia solium*.

(b) Write a note on the structure of Collablast cell.

(c) Write the characteristics of Miracidium larva.

(d) Mention the significance of conjugation in *Paramecium* sp.

3. Answer any *four* questions : 4×4=16

(a) Describe the different types of coral reefs. State their function.

(b) What are the parasitic adaptations found in *Fasciola* sp.?

(c) Write a short note on leuconoid type of canal system with diagram.

(d) Comment on the pathogenicity and control measures of *Wuchereria bancrofti*.

(e) Mention two characters of Class Calcarea and Class Hexactinellida with an example of each. 2+2=4

(f) Briefly describe the metagenesis in *Obelia* sp.

(g) Describe the osmotic theory of amoeboid movement with a neat diagram.

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