UG 1st Semester Examination 2021
ZOOLOGY (Honours)
Paper : DC-1
(Non-Chordates I: Protists to Pseudo-coelomates)

Full Marks: 25   Time: Two hours

The figure in the margin indicates full marks.

Candidates are requested to give their answers in their own words as far as practicable.

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

(a) Give the scientific name of Venus flower basket.

(b) Which cell type is exclusively found in Cnidaria?

(c) The strobila of tape worm is made of sexual units called _____. (Fill in the blank)

(d) Name the infective stage of *Ascaris lumbricoides.*

(e) Give an example of class Trematoda.

(f) Lasso cells are found in phylum _____. (Fill in the blank)

(g) The embryo of *Wuchereria bancrofti* is known as _____. (Fill in the blank)

(h) Which protein link connects the peripheral doublets present in the shaft of cilia?

(i) The inhabitants of extreme environments like thermal vents belong to the kingdom _____.

(j) Dinoflagellates are plant-like protists. (True/False)

(k) The free-swimming larva of Cnidarians is called _____.

(l) The causative agent of liver rot in sheep is _____.

2. Answer any *two* questions: 2½×2=5

(a) Write the characteristic features of Cercaria larva with proper diagram.

(b) Give a brief account of Atoll reef.

(c) What are spicules? State its taxonomic significance.   (1+1½=2½)

(d) Briefly describe the parasitic adaptation of *Ascaris lumbricoides*.

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

(a) Describe the ultrastructure of flagella with diagram.

(b) Briefly discuss on "metagenesis of *Aurelia*" with diagram.

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

(d) Comment on the pathogenicity and control measures of *Entamoeba histolytica*.

(e) Why *Fasciola hepatica* is called digenetic parasite? Schematically represent the life cycle of this parasite.   (1½+2½=4)

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

(g) Diagrammatically represent the stages of conjugation in *Paramoecium* sp. State its significance.   (2+2=4)