

Bachelor of Science (B.Sc.) Semester–I (C.B.S.) Examination

ZOOLOGY

(Life and Diversity of Animals Non-chordates) (Protozoa to Annelida)

Compulsory Paper—1

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) All questions are compulsory.

(2) All questions carry equal marks.

(3) Illustrate your answers with suitable diagrams.

1. Describe in detail mode of infection and control measures of parasitic protozoa — *Giardia* and *Leishmania*. 10

OR

Write short notes on :

(a) Classification of phylum protozoa up to classes. 5

(b) Structure of *Paramecium*. 5

2. Explain in detail reproduction and development in *Sycon*. 10

OR

Write short notes on :

(a) Leucon type of canal system. 5

(b) General characters of Phylum Coelenterata. 5

3. Explain reproductive system in *Ascaris*. 10

OR

Write short notes on :

(a) General characters of Aschelminthes. 5

(b) Physiological adaptation in Helminthes. 5

4. Write an essay on vermiculture. 10

OR

Write short notes on :

(a) General characters of Annelida. 5

(b) Draw a well labelled diagram of urinogenital system of Leech. 5

5. Write **four** or **five** lines on the following (any **ten**) :

(i) Merozoite

(ii) Pilus

(iii) Signet ring

(iv) Pinacocyte

(v) Perisarc

(vi) Blastostyle

(vii) Scolex

(viii) Rhabditis

(ix) Flame cells

(x) Clitellum

(xi) Hirudin

(xii) Botryoidal tissue. 10