

Exam. Code : 103201  
Subject Code : 1269

B.A./B.Sc. 1<sup>st</sup> Semester

ZOOLOGY

ZOO-IB (Biodiversity-I (Protozoa to Annelida))

Time Allowed—3 Hours] [Maximum Marks—35

Note :— Attempt any five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

- I. (i) Draw and explain the asexual cycle of *Plasmodium vivax* in man. 5
- (ii) What are the various measures to prevent the infection of *P. vivax* ? 2
- II. Give an account of conjugation in *Paramecium* and discuss its significance. 7

SECTION-B

- III. Explain the canal system of *Sycon* and explain the mechanism of circulation of water through this system. 7

IV. (i) Describe the various types of zooids found in *Obelia* colony. 4

(ii) How can a medusa be derived from a polyp ? 3

#### SECTION-C

V. Explain the digenetic life cycle of *Fasciola hepatica*. 7

VI. Explain the external morphology of *Taenia solium*. 7

#### SECTION-D

VII. (i) Give the morphology and physiology of *Ascaris*. 5

(ii) Write a note on Ascariasis. 2

VIII. Write short notes on :

(i) Coelom in earthworm. 4

(ii) Locomotion in earthworm. 3