

Exam.Code:0005

Sub. Code: 0457

2012

B.A./B.Sc. (General) Fifth Semester

Zoology

Paper – II [Opt. (i)]: Applied Zoology – I

Medical Zoology and Medical Laboratory Technology – I (ZOO-502A)

Time allowed: 3 Hours

Max. Marks: 36

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question each from Unit.

x-x-x

1) Write a note on the following:

1x8=8

- a) Types of hosts with examples.
- b) Illustrate the trophozoite of *Entamoeba histolytica*.
- c) Diseases transmitted by different species of *Anopheles* and *Aedes*.
- d) Hydatid cyst.
- e) Diseases transmitted by *Pediculus*.
- f) Elephantiasis.
- g) Causes and symptoms of cholera.
- h) Difference between larvae of *Anopheles* and *Culex*.

Unit-I

2) Describe the occurrence of epidemic diseases and the eradication programs which are in place for the control of these diseases.

7

3a) What is the causative agent of Chikangunya? Explain the pathogenesis of disease.

3.5

b) Explain the mode of transmission of Japanese encephalitis. Describe the measures taken for controlling the spread of this disease.

3.5

Unit-II

4a) Describe the life cycle and pathogenicity caused by *Giardia intestinalis*.

3.5

b) Explain the life cycle of the protozoan parasite *Leishmania donovani* and treatment of visceral leishmaniasis.

3.5

5a) Give an account of the mode of infection and life cycle of *Plasmodium*.

3.5

b) Explain the treatment and prophylaxis of the disease caused by *Trypanosoma* and *Trichomonas*.

3.5

P.T.O.

(2)

Unit-III

- 6) Give an account of the mode of infection, life history and pathogenesis of the disease caused by *Dracunculus medinensis*. 7
- 7 a) Explain the similarities and differences between *Schistosoma mansoni*, *S.japonicum* and *S.haematobium*. 3.5
- b) Explain the mode of infection and treatment of the disease caused by *Ancylostoma*, *Trichinella* and *Wuchereria*. 3.5

Unit-IV

- 8) Describe the measures undertaken for the control of arthropod vectors you have studied. 7
- 9a) Explain the life cycle stages and diseases caused by *Culex* and *Pediculus*. 3.5
- b) What are the differences in the life cycle and diseases caused by *Mansonia* and *Xenopsylla*. 3.5

X-X-X