

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

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(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

C4KNOWLEDGESEEKERS