

P.G. 3rd Semester - 2017

ZOOLOGY

Paper : MZOOMET-303A

Full Marks : 40 Time : 2 Hours

The figures in the right-hand margin indicate marks.
Candidates are required to give their answers in their own words as far as practicable.

Unit-I

(Parasitism and Diversity of Parasites)

(Marks : 20)

1. Answer four questions from the following:

1×4=4

- a) Define 'Virulence'.
- b) What is 'Phasmid'?
- c) What do you mean by 'Parasite mix'?
- d) What is 'Bothria'?
- e) Where do you find 'copulatory bursa'?
- f) Define 'cleptoparasite'.

2. Answer three questions from the following:

2×3=6

- a) Distinguish between 'Infection' and 'Disease'.
- b) State the salient features of Parasitic Hemiptera with examples.
- c) Comment on parasitic castration.
- d) Comment on parasite's ecological niche.
- e) Distinguish between r-strategy and k-strategy in context with the life cycle of the parasite.

3. Answer two questions from the following:

5×2=10

- a) Define transmitter. Briefly describe different mode of transmission of parasites with examples.
- b) "Parasites evolved more slowly than do their host"– explain the statement critically.
- c) Write down the salient features of cestodes. Distinguish between sub-class 'Cestodaria' and 'Eucestoda'. Give examples.
- d) Give an account of Host specificity of parasite.

Unit-II
(Biology of Parasites)

(Marks : 20)

4. Answer four questions from the following:

1×4=4

- a) Which stage of Entamoeba is infective to man?
- b) Where do you find 'Decacanth embryo'?
- c) What is 'Gynaecophoric Canal'?
- d) Define 'Occult filariasis'.
- e) Distinguish between 'Promastigote' and 'Opisthomastigote'.
- f) What is microfilaria?

5. Answer three questions from the following:

2×3=6

- a) Define 'coracidium'.
- b) What is PAM? Give the scientific names of the causative organisms.
- c) Why it is difficult to develop immunity/ vaccine against malaria?
- d) Distinguish between Proceroid and Plerocercoid.
- e) Comment on cysticercus cellulosae.

6. Answer two questions from the following:

5×2=10

- a) Describe the life cycle pattern of parasitic nematode in brief. 5
- b) Briefly describe the life cycle stages of Guinea worm. Comment on its pathogenicity. 3+2
- c) Write short notes on 'Chagas disease' and 'Hydatid disease'. $2\frac{1}{2}+2$
- d) Give a brief account of generalized life cycle of Acanthocephala. 5