

2022
M.Sc.
Third Semester
CORE – 09
ZOOLOGY
Course Code: MZOC 3.11
(Parasitology)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. Give a detailed account on the interrelationship between host and parasitic responses. 14
2. Write notes on the following: 7×2=14
 - (a) Anatomical and biochemical aspect of parasitic adaptation
 - (b) Anthroponoses

UNIT-II

3. Discuss the morphology, life-cycle and mode of infection of *Taenia solium*. 14
4. (a) Describe the various vaccine strategies for malarial parasite. 7
(b) Briefly describe the life cycle of *Giardia*. 7

UNIT-III

5. Describe the morphology and life cycle of *Schistosoma*. Add a note on the mode of entry into the host animal. 14
6. Write notes on the following: 7×2=14
 - (a) Mode of transmission and pathogenicity of *Dracanculus*
 - (b) Citrus nematode

UNIT-IV

7. Describe the molecular characteristics of variable surface glycoprotein (VSG). Add a note on its gene expression. 14
8. Write notes on the following: 7×2=14
- (a) Germ-line limited DNA
 - (b) Sexual stage of *Trypanosoma*

UNIT-V

9. Describe the various techniques involved in waste-water treatment. What are the main sources of waste water production? 14
10. What is food microbiology? Describe the role of bacteria in food industry. 14