

2021
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. Explain the types of animal association between organisms. 14
2. Explain on 7×2=14
 - (i) Morphological and physiological parasitic adaptations
 - (ii) Zoonoses

UNIT-II

3. Describe the life cycle of *plasmodium sp.* with diagram. 14
4. Write notes on 7×2=14
 - (i) Two examples of antimalarial drug resistance
 - (ii) Morphology of *Leishmania sp.*

UNIT-III

5. Write notes on 7×2=14
 - (a) Biology and modes of entry of *Fasciola sp.*
 - (b) Transmission, pathogenecity, treatment and prophylaxis of *Wuchereria sp.*
6. Is there a vaccine for *Ancylostoma sp.*? Give reasons for your answer. What are the most important reasons to develop a vaccine against hookworm? 2+6+6=14

UNIT-IV

7. Write an account on inseminative behaviour, parthenogenesis and polyspermy in Platyhelminthes. 14
8. Write notes on 7+7=14
- (a) Sex determination in Schistosomes
- (b) Chromatin diminution in Ascaris

UNIT-V

9. Explain the types of biological control agents. Mention the advantages and disadvantages of biocontrol. 9+5=14
10. Discuss the categories of agents used as biological weapons. Explain any two diseases associated with it. 8+3+3=14
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