





# MICROBIOLOGY HSSC-II

76

Time allowed: 2:20 Hours

Total Marks Sections B and C: 40

**NOTE:** Answer any THIRTEEN parts from Section 'B' and any TWO questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

## SECTION - B (Marks 26)

**Q. 2** Answer any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines. ( 13 x 2 = 26 )

- (i) Which stage of Leishmania is found in human host? Describe its morphology.
- (ii) Write four major differences between Plasmodium and other protozoan parasites.
- (iii) Clearly define the term Hermaphrodite with example.
- (iv) What is meant by zoonosis or zoonotic infections? Give two examples.
- (v) Name the intermediate host for plasmodium. How does it enter the host body?
- (vi) What is Dimorphic Fungi? Explain with relevant examples.
- (vii) Define conjugation. In which parasite does it take place?
- (viii) What is cysticercus larva? What is its importance?
- (ix) What is meant by Haemozoin? Where and how is it formed?
- (x) Differentiate clearly with examples between moulds and yeast.
- (xi) Enlist four common routes of parasitic transmission to human. Give one example of each type.
- (xii) Define swimmer's itch. How is it caused?
- (xiii) Name the infective larval stage of Hookworm along with mode of infection.
- (xiv) Enlist the insects, important in parasitic development and transmission. (Alongwith their relevant parasites)
- (xv) Define Helminths and classify them with one characteristic of each group.
- (xvi) What is the difference between oviparous and viviparous organisms? Give examples of each type.
- (xvii) Write four major differences between Trypanosomal and Leishmanial parasites.

## SECTION - C (Marks 14)

**Note:** Attempt any TWO questions. All questions carry equal marks. ( 2 x 7 = 14 )

- Q. 3** Explain the life cycle and transmission of *Dephylobothrium latum*. How is it different from other cestodes?
- Q. 4** Discuss in detail the morphology, transmission and life cycle of *Ascaris lumbricoides* in human.
- Q. 5** What is the difference between Sporogony and Schizogony? Explain the sexual life cycle of plasmodium in definitive host.