



MICROBIOLOGY HSSC-II

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) Differentiate between insect vector and insect carrier, with suitable examples.
- (ii) Write down any four general characteristics of Genus *Trichomonas*.
- (iii) Enumerate the morphological stages of *Haemoflagellates* along with their hosts.
- (iv) Define oil immersion lens. How does the oil immersion help the microscopic examination of organisms?
- (v) What are the modes of reproduction in protozoa? Give suitable examples.
- (vi) Define sleeping sickness. How is it caused?
- (vii) Define the "Ring stage" of plasmodium. Where is it formed?
- (viii) How is the infection of *Taenia seginata* transmitted to humans?
- (ix) Define 'Heart lung migration' with two examples.
- (x) How is the "*D.latum*" different from other tape worms? (enlist four differences)
- (xi) Explain the term Xenodiagnosis.
- (xii) Define and classify different types of Mycosis.
- (xiii) Enlist the parasites which infect humans by skin penetration Also write names of their infective forms.
- (xiv) Differentiate between complete and incomplete metamorphosis in insects, with suitable examples.
- (xv) How you will differentiate *Entamoeba histolytica* from other amoebae in stool sample?
- (xvi) Enlist the developmental stages of schistosomes in different hosts (in sequence).
- (xvii) Define Geohelminths with three examples.

SECTION – C (Marks 14)

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

- Q. 3** Define Amoebiasis. Give a complete account of its different types along with pathogenicity.
- Q. 4** Write a detailed note about the transmission and development of plasmodium in human host.
- Q. 5** Write down the complete procedure for the identification of 'fungal infections' in laboratory. Also write the procedure of sample collection