





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

- (i) What is Amastigote? Name its different parts.
- (ii) Define Zoonosis.
- (iii) What are Schistosomes? List their developmental stages in sequence.
- (iv) Define Vector. Name three of them alongwith their parasites.
- (v) Differentiate between Amoebic dysentery and Bacillary dysentery. Give four points.
- (vi) Define Mycosis. List its types.
- (vii) What is Haemozoin? How is it formed?
- (viii) Differentiate between complete and incomplete Metamorphosis.
- (ix) Draw and label the egg of Taenia species.
- (x) What is Heart lung migration?
- (xi) What are the common routes of parasitic infection to humans?
- (xii) What is meant by Numerical aperture of an objective?
- (xiii) What is Plasmodium? List its different common species.
- (xiv) What are the main pathological affects of S. haematobium?
- (xv) What is Binary fission? Name its different types with relevant examples.
- (xvi) What is Sleeping sickness? How is it transmitted?
- (xvii) What is the basic classification of human parasites upto class level?

### SECTION – C (Marks 14)

**Note:-** Attempt any TWO questions. All questions carry equal marks.

( 2 x 7 = 14 )

- Q. 3** Explain the source, transmission and pathogenicity of Hydatid cyst disease, in humans.
- Q. 4** Differentiate between Schistosomes and Cestodes. Also draw the life-cycle of Schistosomes.
- Q. 5** Write in detail about the hosts, transmission, pathology and lab. diagnosis of Leishmania donovani.