



Roll No.

Sig. of Candidate. \_\_\_\_\_

Answer Sheet No. \_\_\_\_\_

Sig. of Invigilator. \_\_\_\_\_

## MICROBIOLOGY HSSC-II

### SECTION – A (Marks 10)

Time allowed: 10 Minutes

NOTE:- Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 10 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- (i) Which of the following groups of parasites moves with the help of Pseudopodia?  
A. Mastigophora B. Rhizopoda  
C. Sporozoa D. Ciliophora
- (ii) Which of the following values is directly related with the useful magnification of the microscope?  
A. Refractive Index B. Focal length  
C. Resolving power D. Numerical aperture
- (iii) Which of the following parasites causes Megaloblastic anaemia and Vitamin B. deficiency in humans?  
A. Entamoeba B. Giardia  
C. H.nana D. D. latum
- (iv) Which of the following organisms is provided with undulating membrane?  
A. Trypanosoma B. Leishmania  
C. Trichosporum D. Tricophyton
- (v) Which of the following is cultured on NNN Culture medium?  
A. Trichomonas B. Leishmania  
C. Cryptococcus D. Hookworm
- (vi) Which of the following parasites exhibits free living existence for several generations?  
A. S. stercoralis B. A. lumbricoides  
C. A. duodenale D. N. americanus
- (vii) Which of the following causes Ringworm Infection in humans?  
A. Pin worm B. Thread worm  
C. Microsporum D. Cryptococcus
- (viii) Which of the following parasites does **NOT** cause Autoinfection?  
A. A. lumbricoides B. H. nana  
C. E. vermicularis D. S. stercoralis
- (ix) What is the infective stage of Plasmodium to humans?  
A. Trophozoite B. Merozoite  
C. Gametocyte D. Sporozoite
- (x) Which of the following parasites stains well with Lactophenol cotton blue stain?  
A. Intestinal protozoa B. Sporozoa  
C. Fungi D. Blood parasites

For Examiner's use only:

Total Marks:

10

Marks Obtained:



## 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.