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# MICROBIOLOGY HSSC-II

## SECTION – A (Marks 10)

Time allowed: 10 Minutes

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**Note:** Section – A is compulsory. All parts of this section are to be answered on the separately provided OMR Answer Sheet which 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** Choose the correct answer A / B / C / D by filling the relevant bubble for each question on the OMR Answer Sheet according to the instructions given there. Each part carries one mark.

- 1) Which of the following is also known as oil immersion lens of the microscope?
 

A.      Ocular lens	B.      100 X objective
C.      40 X objective	D.      10 X objective
- 2) The host which keeps the parasite in absence of its human host is termed as:
 

A.      Paratenic host	B.      Alternate host
C.      Intermediate host	D.      Reservoir host
- 3) What is the infective form of Leishmania for human host?
 

A.      Amastigot	B.      Epimastigot
C.      Promastigot	D.      Trypomastigot
- 4) The host-parasite relationship in which none of the partner is harmed is known as:
 

A.      Mutualism	B.      Parasitism
C.      Commensalism	D.      Symbiosis
- 5) Which of the following does **NOT** produce cysts?
 

A.      Trichomonas	B.      Commensalism
C.      Parasitism	D.      Symbiosis
- 6) Which of the following causes Ground itch?
 

A.      Ringworm	B.      Pin worm
C.      Thread worm	D.      Hook worm
- 7) Which of the following is **NOT TRUE** about Fungi?
 

A.      Parasitic	B.      Worm like
C.      Eukaryotic	D.      Saprophytic
- 8) Which of the following is the "largest protozoan parasite" infecting humans?
 

A.      Ent. histolytica	B.      Ent. Coli
C.      B. Coli	D.      E. Coli
- 9) Which group of helminthes includes Schistosomes?
 

A.      Tape worms	B.      Flukes
C.      Round worms	D.      Filarial worms
- 10) Which of the following is known as Mechanical Vector for parasite?
 

A.      House fly	B.      Sand fly
C.      Horse fly	D.      Dragon fly



# MICROBIOLOGY HSSC-II

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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) Define Zoonosis or Zoonotic infection with example.
- (ii) Write down the developmental stages of Blood flukes in sequence.
- (iii) Define total magnification of a microscope. How can it be changed?
- (iv) What is Ringworm infection? How is it caused?
- (v) Define "heart lung migration" with at least two examples.
- (vi) Define and classify Mycosis.
- (vii) Name the infective form and mode of infection of *T. seginata* to humans.
- (viii) Write down the pathogenic effects of *S. haematobium* to humans.
- (ix) Clearly define the term Autoinfection with atleast two examples.
- (x) What are helminthes? Name their different groups with examples.
- (xi) Define and name the Hermaphrodite parasites.
- (xii) How you will differentiate *Ent. coli* cyst from *Ent. histolytica* cyst during microscopic examination.
- (xiii) Write a note about reproduction in Protozoan parasites (different types).
- (xiv) What is the role of Eosin in microscopic studies of parasites?
- (xv) Name the infective form and write the mode of infection of *T. cruzi* to humans.
- (xvi) Clearly differentiate between Moulds and yeast with examples.
- (xvii) Enlist the Medically important Cestodes with their common names (at least four).

## SECTION – C (Marks 14)

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

- Q. 3** Write in detail the transmission and lab diagnosis of medically important intestinal nematodes.
- Q. 4** Clearly differentiate between Plasmodial Sporogony and Schizogony. Write down all the developmental stages in sequence.
- Q. 5** Draw the life cycle of *Ent. histolytica* with suitable diagrams and explain its pathogenicity in detail.