

C 58010

(Pages 2 + 2 + 1 = 5)

Name.....

Reg. No.....

SECOND PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, JULY 2009**MICROBIOLOGY—Paper II**

Time : Two Hours

Maximum : 40 Marks

*Answer all the questions.**Draw diagrams wherever necessary.**Answer Sections A and B in separate answer-books.**MCQs should be answered first in the response sheet provided.***Section A**

- I. Multiple Choice Questions. Single response type 8 (separate sheet attached). $(8 \times \frac{1}{2} = 4 \text{ marks})$
- II. Match the following. Single response type 8 (separate sheet attached). $(8 \times \frac{1}{2} = 4 \text{ marks})$
- III. Draw and label :
- (a) Rabies virus.
 - (b) Aspergillus fumigatus.
- $(2 \times 1 = 2 \text{ marks})$
- IV. Short answer questions :
- 1 What are Mycotoxins ?
 - 2 What is antigenic shift ?
 - 3 Differentiate eumycotic mycetoma from actinomycotic mycetoma.
 - 4 Enumerate four parasitic infections in which liver is affected as the target organ.
- $(4 \times 1 = 4 \text{ marks})$
- V. Write short notes on :
- 1 Histoplasmosis.
 - 2 Prophylaxis of poliomyelitis.
 - 3 Free living amoeba.
- $(3 \times 2 = 6 \text{ marks})$

Section B

- VI. Read the following paragraph and answer the following questions :—

A 40 year old man presented with fever, diarrhoea and loss of weight of three months duration. He gives a history of sexual contact with a commercial sex worker 10 years back. Stool examination by modified acid fast staining revealed pink coloured cysts. Blood test confirmed the diagnosis.

Turn over

2.

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- 1 What is the likely diagnosis ?
- 2 What are the aetiological agents that produce intractable diarrhoea in such patients ?
- 3 What are the blood tests to be done to confirm the diagnosis ?
- 4 Classify the antiviral drugs used for treatment.

(1 + 3 + 3 + 3 = 10 marks)

VII. Short answer questions :

- 1 What are prions ?
- 2 What are dimorphic fungi ? Give *two* examples.
- 3 What is a continuous cell line ? Give *two* examples.
- 4 What are dermatophytids ?

(4 × 1 = 4 marks)

VIII. Write short notes on :

- 1 Pneumocystis jiroveci.
- 2 KFD.
- 3 M.M.R. vaccine.

(3 × 2 = 6 marks)

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MICROBIOLOGY—Paper II

I. MULTIPLE CHOICE QUESTIONS

Note.—(1) Do not write anything on the question paper.

(2) Write your register number on the answer-sheet provided.

(3) Select one most appropriate response and encircle the corresponding alphabet against each question number in the answer-sheet provided.

1. Virus commonly causing aseptic meningitis is :

- | | |
|--------------------|------------------|
| (A) Parvovirus. | (B) ECHO virus. |
| (C) Norwalk virus. | (D) Adeno virus. |

2. Presumptive coliform count is usually done to analyse the quality of :

- | | |
|------------|------------|
| (A) Milk. | (B) Water. |
| (C) Blood. | (D) Food. |

3. The morphological form of *Leishmania donovani* seen in peripheral blood of man is :

- | | |
|--------------------|----------------------|
| (A) Amastigotes. | (B) Epimastigotes. |
| (C) Promastigotes. | (D) Trypomastigotes. |

4. All of the following viruses are sexually transmitted except :

- | | |
|----------|-----------------|
| (A) HIV. | (B) HBV. |
| (C) HPV. | (D) Poliovirus. |

5. Negri bodies are abundant in :

- | | |
|------------------|-------------------|
| (A) Hippocampus. | (B) Hypothalamus. |
| (C) Cerebrum. | (D) Pons. |

6. *Leishmania* can be grown in :

- | | |
|---------------------|----------------------------|
| (A) Chocolate agar. | (B) NNN medium. |
| (C) Bile salt agar. | (D) Loefflers serum slope. |

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7. Spores with tubercles or finger like projections are diagnostic of :

- (A) Coccidioidomycosis. (B) Candidiasis.
(C) Histoplasmosis. (D) Cryptococcosis.

8. The following are viral haemorrhagic fevers except :

- (A) Marburg. (B) Ebola.
(C) Hantaan. (D) EBV.

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MICROBIOLOGY—Paper II

II. Match the following :—

- | | |
|------------------------------|----------------------------|
| A 1 Schistosoma haematobium | (a) Anaemia. |
| 2 Strongyloides stercoralis | (b) Keratitis. |
| 3 Ankylostoma duodenale | (c) Endemic haematuria. |
| 4 Acanthamoeba | (d) Larva currens. |
| | (e) Otitis media. |
| B 1 Negri bodies | (a) Measles virus. |
| 2 Henderson-Patterson bodies | (b) HSV. |
| 3 Warthin-Finkeldy bodies | (c) Molluscum contagiosum. |
| 4 Lipschutz bodies | (d) Rabies virus. |
| | (e) Adenovirus. |