



(Pages : 3)

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Reg. No. :

Name :

Second Professional M.B.B.S. Degree Examination, June 2009
MICROBIOLOGY (Paper – II)
(Includes Virology, Parasitology, Mycology and Clinical Microbiology)

Time : 2 Hours

Max. Marks : 40

- Instructions :** 1) Answer *all* questions.
2) *Draw* diagrams *wherever* necessary.
3) *MCQs* should be answered *first* in the response sheet *attached*.

SECTION – A

I. Multiple choice questions :

(8×½=4 Marks)

- 1) The following viruses are transmitted through blood, except
a) HIV b) HBV c) HCV d) HAV
- 2) The chemical disinfectant commonly used to destroy HIV is
a) Phenol b) Dettol
c) 2% Gluteraldehyde d) Hypochlorite
- 3) The safest vaccine used for prophylaxis of Rabies is
a) Chick embryo vaccine b) Semple vaccine
c) HDCV d) BPL vaccine
- 4) Dermatophyte species which do not infect nail is
a) Microsporum
b) Epidermophyton
c) Trichophyton
d) Both Microsporum and Epidermophyton
- 5) 'Sclerotic bodies' are seen in
a) Botryomycosis b) Chromoblastomycosis
c) Rhinosporidiosis d) Phaeohyphomycosis

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- 6) The following fungi are dimorphic except
- a) Histoplasma capsulatum
 - b) Blastomyces dermatitidis
 - c) Cryptococcus neoformans
 - d) Sporothrix schenckii
- 7) The infective form of wuchereria bancrofti is
- a) Filariform larva
 - b) First stage larva
 - c) Second stage larva
 - d) Third stage larva
- 8) 'Fugitive swelling' is produced by
- a) Loa loa
 - b) Onchocerca volvulus
 - c) Mansonella ozzardi
 - d) Mansonella streptocerca

II. Match the following :

(8×½=4 Marks)

- | | |
|----------------------------|------------------------|
| A) 1) Herpes simplex | True yeast |
| 2) Cryptococcus neoformans | Diphyllobothrium latum |
| 3) Cyclops | Yeast-like fungi |
| 4) Candida albicans | Encephalitis |
| B) 1) Taenia solium | Aflatoxin |
| 2) Aspergillus flavus | Subcutaneous mycosis |
| 3) Sporotrichosis | Trematode |
| 4) Fasciola hepatica | Cestode |

III. Draw and label :

(2×1=2 Marks)

- 1) Human Immunodeficiency virus.
- 2) Endothrix type of fungal infection of hair.

IV. Short answer questions :

(4×1=4 Marks)

- 1) What is continuous cell line ?
- 2) What are zygomycetes ?
- 3) Which parasite is known as Chinese liver fluke ?
- 4) What is black water fever ?



V. Write short notes on : (3×2=6 Marks)

- 1) Hepatitis B vaccines
- 2) Slow virus diseases
- 3) Opportunistic fungal infections.

SECTION – B

VI. Read this paragraph and answer the following questions : (1+2+2+3+2=10)

A three months old baby was brought to the paediatrics out-patient department with complaints of passing loose stool 8 times/day, fever and vomiting. On examination, the stool was greenish in colour.

- 1) Which is the most common virus causing diarrhoea in infants ?
- 2) Describe the morphology of the virus.
- 3) What are the other viruses causing diarrhoea ?
- 4) Describe the pathogenesis of viral diarrhoea.
- 5) How will you prove the diagnosis and treat the case ?

VII. Short answer questions : (4×1=4 Marks)

- 1) Casoni's test.
- 2) Tuberculate spore.
- 3) Germ tube test.
- 4) Enterotest.

VIII. Write short notes on : (3×2=6 Marks)

- 1) Rhinosporidiosis.
 - 2) Congenital viral infections.
 - 3) Oncogenic viruses.
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