

MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – MAY 2008

SUBJECT: MICROBIOLOGY - I (ESSAY)

Monday, May 05, 2008

Time available: 10.30 – 13.00 Hours

Maximum Marks: 60

✍ Answer ALL the questions.

✍ Draw diagrams and flow charts wherever appropriate.

1. Describe the structure of a prokaryotic cell with a neat labeled diagram.

(5+3 = 8 marks)

2. Enumerate the bacterial causes of diarrhea. Describe the pathogenesis and laboratory diagnosis of Cholera.

(2+2+4 = 8 marks)

3. Write short notes on:

3A. Non sporing anaerobes

3B. Antigens

3C. Plasmids

3D. Laboratory diagnosis of gas gangrene

3E. Local immunity

3F. Delayed hypersensitivity

(4×6 = 24 marks)

4. Write briefly on:

4A. Malignant pustule

4B. ELISA

4C. Antibiotic sensitivity testing

4D. Sputum concentration techniques

4E. *Streptococcus pneumoniae*

(4×5 = 20 marks)



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Tuesday, May 06, 2008

Time available: 10.30 – 13.00 Hours

Maximum Marks: 60

✍ Answer ALL questions.

✍ Draw diagrams and flow charts wherever appropriate.

1. Describe the life cycle of *Plasmodium falciparum*. Add a note on complications of Falciparum malaria.

(4+4 = 8 marks)

2. List Myxoviruses. Describe the pathogenesis and laboratory diagnosis of Influenza.

(2+3+3 = 8 marks)

3. Write briefly on:

3A. Inclusion bodies

3B. Kysanur forest disease

3C. Prions

3D. Cryptococcosis

3E. Dimorphic fungi

3F. Larva migrans

(4×6 = 24 marks)

4. Write short notes on:

4A. Epstein Barr virus

4B. Viral vaccines

4C. Loa loa

4D. Primary amoebic meningoencephalitis

4E. Mycotoxin

(4×5 = 20 marks)



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SECOND MBBS DEGREE EXAMINATION – NOV/DEC 2008

SUBJECT: MICROBIOLOGY - I (ESSAY)

Friday, November 28, 2008

Time available: 10.30 – 13.00 Hours

Maximum Marks: 60

✍ Answer ALL the questions.

✍ Draw diagrams and flow charts wherever appropriate.

1. Define and enumerate antigen-antibody reactions. Explain precipitation reactions.
(2+2+4 = 8 marks)
2. Classify Streptococci. Mention the toxins and enzymes produced by Streptococcus pyogenes and laboratory diagnosis of Streptococcus pyogenes.
(2+2+4 = 8 marks)
3. Write short notes on:
 - 3A. Anaerobic culture methods
 - 3B. Antibiotic sensitivity tests
 - 3C. Non-Gonococcal urethritis
 - 3D. Alternate complement pathway
 - 3E. Halophilic vibrios
 - 3F. Bacterial zoonoses.(4×6 = 24 marks)
4. Write briefly on:
 - 4A. Water borne diseases
 - 4B. Conjugation
 - 4C. Cytokines
 - 4D. Cutaneous anthrax
 - 4E. Nosocomial infections.(4×5 = 20 marks)

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SECOND MBBS DEGREE EXAMINATION – NOV/DEC 2008

SUBJECT: MICROBIOLOGY - II (ESSAY)

Saturday, November 29, 2008

Time available: 10.30 – 13.00 Hours

Maximum Marks: 60

✍ Answer ALL the questions.

✍ Draw diagrams and flow charts wherever appropriate.

1. Describe the pathogenesis and laboratory diagnosis of Human Immunodeficiency Virus. Add a note on standard precautions.

(3+3+2 = 8 marks)

2. Write in detail the life cycle and laboratory diagnosis of *Ascaris lumbricoides*.

(4+4 = 8 marks)

3. Write short notes on:

3A. Antigenic variation of Influenza virus.

3B. Interferon.

3C. Kyasanur forest disease.

3D. Superficial Mycosis.

3E. *Cryptococcus neoformans*.

3F. *Cysticercus cellulosae*.

(4×6 = 24 marks)

4. Write briefly on:

4A. Non-neural Vaccines for Rabies

4B. Viral Gastroenteritis

4C. Extraintestinal Ameobiasis

4D. Laboratory diagnosis of Malaria

4E. *Histoplasma capsulatum*

(4×5 = 20 marks)