

MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – NOV/DEC 2009

SUBJECT: MICROBIOLOGY - PAPER I (ESSAY)

Monday, November 30, 2009

Time: 10:30 – 13:00 Hrs.

Maximum Marks: 60

✍ Answer ALL questions.

✍ Draw diagrams and flow charts wherever appropriate.

1. Enumerate the in vitro Antigen-Antibody reactions. Explain the Agglutination reactions.

(2+6 = 8 marks)

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2. Enumerate the causative agents of acute Bacterial meningitis. Describe the pathogenesis and Laboratory diagnosis of Pneumococcal meningitis.

(2+2+4 = 8 marks)

3. Write short notes on:

3A. Passive Immunity

3B. Anaphylaxis

3C. Bacterial filters

3D. Koch's postulates

3E. Conjugation

3F. Bacterial spore

(4×6 = 24 marks)

4. Write briefly on:

4A. Urinary tract infection

4B. Laboratory diagnosis of Syphilis

4C. *Helicobacter pylori*

4D. Blood culture

4E. TRIC agent

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(4×5 = 20 marks)



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SECOND MBBS DEGREE EXAMINATION – NOV/DEC 2009

SUBJECT: MICROBIOLOGY - PAPER II (ESSAY)

Tuesday, December 01, 2009

Time: 10:30 – 13:00 Hrs.

Maximum Marks: 60

✍ Answer ALL questions.

✍ Draw diagrams and flow charts wherever appropriate.

1. Classify Picornaviruses. Explain the pathogenesis and prevention of poliomyelitis.

(1+3+4 = 8 marks)

2. Enumerate tissue nematodes. Explain the pathogenesis and laboratory diagnosis of filariasis.

(1+4+3 = 8 marks)

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3. Write short notes on:

3A. Cultivation of viruses using cell cultures

3B. Structure of Human Immunodeficiency Virus

3C. Oncogenic viruses

3D. Dermatophytoses

3E. Rhinosporidiosis

3F. Concentration methods for stool examination

(4×6 = 24 marks)

4. Write briefly on:

4A. Dengue fever

4B. Prophylaxis of human rabies

4C. Extra intestinal Amoebiasis

4D. Hydatid cyst

4E. Candidiasis

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(4×5 = 20 marks)

