

Reg. No.

MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) MICROBIOLOGY DEGREE EXAMINATION – FEBRUARY 2011

PAPER I: GENERAL MICROBIOLOGY AND IMMUNOLOGY

Monday, February 07, 2011

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

- ✍ **Answer ALL the questions.**
- ✍ **Write your answers that are brief, clear, relevant and legible.**
- ✍ **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever necessary.**

1. Discuss the structure of bacterial cell.

(25 marks)

2. Define and enumerate Antigen- antibody reactions. Describe ELISA.

(25 marks)

3. **Write short notes on:**

3A. Transduction

3B. Bacterial filters

3C. Anaphylaxis

3D. Passive immunity

3E. Monoclonal antibodies.

(10×5 = 50 marks)



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M.Sc. MEDICAL (FINAL) MICROBIOLOGY DEGREE EXAMINATION – FEBRUARY 2011
PAPER II: SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Tuesday, February 08, 2011

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

- ✗ Answer ALL the questions.
 - ✗ Write your answers that are brief, clear, relevant and legible.
 - ✗ Illustrate your answers with neatly drawn and correctly labelled diagrams wherever necessary.
1. Discuss pathogenesis and laboratory diagnosis of pulmonary tuberculosis. Add a note on drug resistance in tuberculosis.
(25 marks)
 2. Classify fungal infections of skin and its appendages. Discuss dermatophytes in detail.
(25 marks)
3. Write short notes:
- 3A. Aspergillosis
 - 3B. Laboratory diagnosis of acute diarrhoeal diseases
 - 3C. MRSA
 - 3D. Prophylaxis of tetanus
 - 3E. Chromoblastomycosis.

(10×5 = 50 marks)



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M.Sc. MEDICAL (FINAL) MICROBIOLOGY DEGREE EXAMINATION – FEBRUARY 2011

PAPER III: PARASITOLOGY AND VIROLOGY

Wednesday, February 09, 2011

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

- ✍ Answer ALL the questions.
- ✍ Write your answers that are brief, clear, relevant and legible.
- ✍ Illustrate your answers with neatly drawn and correctly labelled diagrams wherever necessary.
1. Classify enteroviruses. Discuss the pathogenesis, laboratory diagnosis and prophylaxis of Poliomyelitis. (25 marks)
2. Describe the life cycle, pathogenesis and laboratory diagnosis of *Plasmodium falciparum*. (25 marks)
3. Write short notes on:
- 3A. Larva migrans
- 3B. Microfilaria
- 3C. Prophylaxis of rabies
- 3D. Yellow fever
- 3E. Laboratory diagnosis of Hepatitis B.

(10×5 = 50 marks)

