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### MANIPAL UNIVERSITY

## M.Sc. MEDICAL (FINAL) MICROBIOLOGY DEGREE EXAMINATION – JULY 2013 PAPER I: GENERAL MICROBIOLOGY AND IMMUNOLOGY

Thursday, July 11, 2013

Time: 14:00 - 17:00 Hrs.

Maximum Marks: 100

- Answer ALL the questions.
- Write answers that are brief, clear, relevant and legible.
- Illustrate your answers with neatly drawn and correctly labeled diagram wherever appropriate.
- 1. Describe various methods of antibiotic susceptibility testing and interpretation.

(25 marks)

2. Define and classify hypersensitivity. Describe type I hypersensitivity reactions.

(25 marks)

- 3. Write short notes on:
- 3A. Plasmids
- 3B. Quality control and quality assurance
- 3C. Immunofluorescence
- 3D. Tlymphocytes
- 3E. Bacterial filters

 $(10 \times 5 = 50 \text{ marks})$ 

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#### MANIPAL UNIVERSITY

### M.Sc. MEDICAL (FINAL) MICROBIOLOGY DEGREE EXAMINATION – JULY 2013 PAPER II: SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Friday, July 12, 2013

Time: 14:00 - 17:00 Hrs.

Maximum Marks: 100

- Answer ALL the questions.
- 1. Describe the pathogenesis, laboratory diagnosis and prophylaxis of diphtheria.

(25 marks)

2. Enumerate subcutaneous mycoses. Describe the pathogenesis and laboratory diagnosis of mycetoma.

(25 marks)

- 3. Write short notes on:
- 3A. Laboratory diagnosis of gas gangrene
- 3B. Bacterial food poisoning
- 3C. Atypical mycobacteria
- 3D. Mucormycosis
- 3E. Dermatophytes

 $(10 \times 5 = 50 \text{ marks})$ 

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### MANIPAL UNIVERSITY

# M.Sc. MEDICAL (FINAL) MICROBIOLOGY DEGREE EXAMINATION – JULY 2013 PAPER III: PARASITOLOGY AND VIROLOGY

Saturday, July 13, 2013

Time: 14:00 - 17:00 Hrs.

Maximum Marks: 100

- Answer ALL the questions.
- Write answers that are brief, clear, relevant and legible.
- Illustrate your answers with neatly drawn and correctly labeled diagrams wherever appropriate.
- Describe the epidemiology, pathogenesis and laboratory diagnosis of Influenza. Add a note on INFLUENZA vaccines.

(25 marks)

2. Describe the epidemiology and pathogenesis of Kala Azar. Discuss the laboratory diagnosis of Kala Azar.

(25 marks)

- 3. Write short notes on:
- 3A. Rabies Vaccine for human use
- 3B. Viral Haemorrhagic fever
- 3C. Discuss the role of free living amoebae in human diseases
- 3D. NACO Strategies for HIV testing in India
- 3E. Discuss the parasitic causes of diarrhoea in an immunocompromised person.

 $(10 \times 5 = 50 \text{ marks})$ 

