(Deemed University)

M.Sc. (FINAL) MICROBIOLOGY DEGREE EXAMINATION – JULY 2003

PAPER I: GENERAL MICROBIOLOGY AND IMMUNOLOGY

Tuesday, July 01, 2003

Time available: 3 Hours

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 appropriate.
- 1. Classify the hypersensitivity reactions and discuss its mechanisms.

(35 Marks)

2. Discuss the principle, methodology and quality control of Antibiotic Susceptibility testing in vitro.

(35 Marks)

- 3. Write short notes on the following:
- 3A. Hot Air Oven
- 3B. Electron Microscopy
- 3C. Anaerobic culture methods.

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M.Sc. (FINAL) MICROBIOLOGY DEGREE EXAMINATION – JULY 2003

PAPER II: SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Wednesday, July 02, 2003

Answer all the questions.

- Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.
- Mention the aetiology of food poisoning. Discuss the laboratory diagnosis and modes of tracing the source of infection.

(35 marks)

Maximum Marks: 100

2. Describe the aetiology and laboratory diagnosis of cutaneous mycosis.

(35 marks)

3. Write short notes on:

Time available: 3 Hours

(10x3 = 30 marks)

- 3A. Listeriosis
- 3B. Bacteroides
- 3C. TRIC agent.

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M.Sc. (FINAL) MICROBIOLOGY DEGREE EXAMINATION – JULY 2003

PAPER III: PARASITOLOGY AND VIROLOGY

Maximum Marks: 100

Thursday, July 03, 2003

Answer all the questions.
Write answers that are brief, clear, relevant and legible.
Illustrate your answers with neatly drawn and correctly labelled diagrams wherever

- Classify sporozoa. Describe the life cycle, pathogenecity, laboratory diagnosis of Plasmodium vivax.
 (35 marks)
- Enumerate the Hepatitis viruses. Describe the structure, pathogenesis and laboratory diagnosis
 of Hepatitis B infection.
 (35 marks)
- 3. Write short notes on: (10x3 = 30 marks)
- 3A. Strongyloides stercoralis
- 3B. Varicella-zoster virus

Time available: 3 Hours

appropriate.

3C. Cultivation of Leishmania donovani

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M. Sc. (FINAL) MICROBIOLOGY DEGREE EXAMINATION - DECEMBER 2003

PAPER I: GENERAL MICROBIOLOGY AND IMMUNOLOGY

Monday, December 01, 2003

Time available: 3 Hours 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 appropriate.
- 1. Discuss the molecular methods for the clinical microbiology laboratory.

(35 Marks)

2. Classify disinfectants. Discuss the evaluation and mechanism of action of disinfectants.

(35 Marks)

- 3. Write short notes on:
- 3A. Bacterial filters
- 3B. Helper T cells
- 3C. HLA typing.

(Deemed University)

M. Sc. (FINAL) MICROBIOLOGY DEGREE EXAMINATION – DECEMBER 2003

PAPER II: SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Tuesday, December 02, 2003

Time available: 3 Hours

• Answer all the questions.

Maximum Marks: 100

- Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.
- 1. Name different species of Corynebacterium. Describe the pathogenesis and laboratory diagnosis of diphtheria. Add a note on prophylaxis.

(35 marks)

2. Classify Enterobacteriaceae. Describe the pathogenesis and laboratory diagnosis of Enteric fever. Add a note on multi-drug resistance in Salmonella Serotypes.

(35 marks)

- 3. Write briefly on:
- 3A. Opportunistic fungal infections
- 3B. Mycetoma
- 3C. Mycotoxins.

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M. Sc. (FINAL) MICROBIOLOGY DEGREE EXAMINATION – DECEMBER 2003

PAPER III: PARASITOLOGY AND VIROLOGY

Wednesday, December 03, 2003

Time available: 3 Hours Maximum Marks: 100

- Answer all the questions.
- Write answers that are brief, clear, relevant and legible.
- Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.
- Classify the medically important Arbo-viruses. Describe the epidemiology and laboratory diagnosis of Japanese encephalitis.

2. Classify nematodes. Describe the morphology, life cycle and laboratory diagnosis of

Ancylostoma duodenale. (35 marks)

(33 marks)

- 3. Write short notes on:
- 3A. Free living Amoeba
- 3B. Larva migrans
- 3C. Onchogenic viruses.

(35 marks)