

MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

MSc (FINAL) MICROBIOLOGY DEGREE EXAMINATION

PAPER I : GENERAL MICROBIOLOGY AND IMMUNOLOGY
Monday, 09 July 2001

Time available: 3 Hours

Maximum Marks: 100

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- Answer all the questions.
 - Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.
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1. Describe the various methods to cultivate the bacteria.
(35 Marks)
2. Describe the Quality assurance in clinical microbiology.
(35 Marks)
3. Write short notes on:
(10 x 3 = 30 Marks)
 - 3A. HLA Typing
 - 3B. Elisa
 - 3C. Scrum sickness

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MSc (FINAL) MICROBIOLOGY DEGREE EXAMINATION

PAPER II : SYSTEMATIC MICROBIOLOGY AND MYCOLOGY

Tuesday, 10 July 2001

Time available: 3 Hours

Maximum Marks: 100

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- Answer all the questions.
 - Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.
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1. Enumerate the causative agents of food poison. Describe the various methods to investigate the source of infection.
(35 Marks)
2. Mention the aetiological agent of Mycetoma. Describe the laboratory diagnosis of Mycetoma infection.
(35 Marks)
3. Write short notes on:
(10 x 3 = 30 Marks)
 - 3A. Mycotoxins
 - 3B. MRSA
 - 3C. Non-specific urethritis.

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MSc (FINAL) MICROBIOLOGY DEGREE EXAMINATION

PAPER III : PARASITOLOGY AND VIROLOGY

Wednesday, 11 July 2001

Time available: 3 Hours

Maximum Marks: 100

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- **Answer all the questions.**
 - **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**
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1. Describe the laboratory diagnosis and prophylaxis of Rabies.
(35 Marks)
2. Classify sporozoa. Describe the life cycle, laboratory diagnosis and prophylaxis of plasmodium falciparum.
(35 Marks)
3. Write short notes on:
(10 x 3 = 30 Marks)
 - 3A. Pnemocystis carinii
 - 3B. Hydatid cyst
 - 3C. Enteriobius vermicularis

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MSc (FINAL) MICROBIOLOGY DEGREE EXAMINATION – DECEMBER 2001

PAPER I : GENERAL MICROBIOLOGY AND IMMUNOLOGY
Monday, December 03, 2001

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.**
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1. Discuss bacteriological analysis of drinking water.
(35 Marks)
2. Classify hypersensitivity reactions. Discuss delayed hypersensitivity.
(35 Marks)
3. Write short notes on the following:
 - 3A. Universal blood and body fluid precautions.
 - 3B. Preservation of bacterial stock cultures.
 - 3C. Particle agglutination tests.

(10 x 3 = 30 Marks)

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MSc (FINAL) MICROBIOLOGY DEGREE EXAMINATION – DECEMBER 2001

PAPER II : SYSTEMATIC MICROBIOLOGY AND MYCOLOGY
Tuesday, December 04, 2001

Time available: 3 Hours

Maximum Marks: 100

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- **Answer all the questions.**
 - **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**
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1. Classify Mycobacteria. Discuss the recent trends of laboratory diagnosis of tuberculosis. Add a note on MDTB.

2. Discuss the pathogenesis and laboratory Escherichia coli diarrhoeal disease of man.

3. Write short notes on:
 - 3A. Cryptococcosis.
 - 3B. Dermatophytes
 - 3C. Mycotoxins.

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MSc (FINAL) MICROBIOLOGY DEGREE EXAMINATION – DECEMBER 2001

PAPER III : PARASITOLOGY AND VIROLOGY

Wednesday, December 05, 2001

Time available: 3 Hours

Maximum Marks: 100

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- **Answer all the questions.**
 - **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**
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1. Mention the general features of trematodes. Discuss the morphology and life cycle and laboratory diagnosis of schistosoma haematobium.

2. Describe the structure of hepatitis B virus. Discuss the method of transmission, clinical features, laboratory diagnosis and prophylaxis of hepatitis B infection.

3. Write short notes on:
 - 3A. HIV vaccine.
 - 3B. Teratogenic viruses.
 - 3C. Larva migrans