MANIPAL ACADEMY OF HIGHER EDUCATION (Deemed University)

MSc (FINAL) MICROBIOLOGY DEGREE EXAMINATION - JULY 2002

PAPER I : GENERAL MICROBIOLOGY AND IMMUNOLOGY Monday, July 01, 2002

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. Describe the various methods of Antibiotic Sensitivity tests and its merit and demerits.

(35 Marks)

2. What is immune response? Classify and describe the mechanism of immune response.

(35 Marks)

- 3. Write short notes on the following:
- 3A. Bacterial Mutation
- 3B. Preservation of culture
- 3C. Hybridoma technology

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MSc (FINAL) MICROBIOLOGY DEGREE EXAMINATION – JULY 2002

PAPER II : SYSTEMATIC BACTERIOLOGY AND MYCOLOGY Tuesday, July 02, 2002

•	Answer all the questions.
•	Illustrate your answers with neatly drawn and correctly labelled diagrams wherever
	appropriate.

1. Discuss the taxonomic changes and laboratory diagnosis of non-sporing anaerobes.

(35 marks)

Maximum Marks: 100

- Enumerate the causes of subcutaneous mycosis. Write briefly about laboratory diagnosis of subcutaneous mycosis.
- 3. Write short notes on:

Time available: 3 Hours

(3x10 = 30 marks)

- 3A. Atypical mycobacteria
- 3B. Halophilic vibrios
- 3C. Oral typhoid vaccine

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MSc (FINAL) MICROBIOLOGY DEGREE EXAMINATION - JULY 2002

PAPER III: PARASITOLOGY AND VIROLOGY Wednesday, July 03, 2002

Maximum Marks: 100

(35 marks)

(35 marks)

•	Write answers that are brief, clear, relevant and legible. Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.
1.	Describe the morphology, life cycle, pathogenesis and laboratory diagnosis of Entamoeba histolytica.

- 2. Give an account of Herpes group of viruses.
- 3. Write short notes on:
- (10x3 = 30 marks)
- 3A. Enterobius vermicularis

Time available: 3 Hours

Anguar all the questions

- 3B. Prions
- 3C. Live viral vaccines

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MSc (FINAL) MICROBIOLOGY DEGREE EXAMINATION - DECEMBER 2002

PAPER I: GENERAL MICROBIOLOGY AND IMMUNOLOGY Monday, December 02, 2002

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. Define and classify sterilization. Explain the mechanism and uses of bacterial filters.

(35 Marks)

What is complement system? Describe the pathways of complement activation and its applications.

(35 Marks)

- 3. Write short notes on the following:
- 3A. Genotype and phenotype variations.
- 3B. Antigen elimination.
- 3C. Electron microscope.

 $(10 \times 3 = 30 \text{ Marks})$



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MSc (FINAL) MICROBIOLOGY DEGREE EXAMINATION – DECEMBER 2002

PAPER II: SYSTEMATIC BACTERIOLOGY AND MYCOLOGY Tuesday, December 03, 2002

Illustrate your answers with neatly drawn and correctly labelled diagrams wherever

Maximum Marks: 100

(35 marks)

(3x10 = 30 marks)

Time available: 3 Hours

appropriate.

Write short notes on:

Chromomycosis

TRIC agents

3C. Purulent meningitis.

3

3B.

Answer all the questions.

1.	Classify strep	ptococci. D	iscuss the patho	genesis and	laboratory	diag	nosis of infection	ns (aused
	by Group A s	streptococci							
							(35 r	narks)
2.	Discuss the	properties,	pathogenicity,	laboratory	diagnosis	and	differentiation	of	genus
	Candida								

MANIPAL ACADEMY OF HIGHER EDUCATION

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MSc (FINAL) MICROBIOLOGY DEGREE EXAMINATION – DECEMBER 2002

PAPER III: PARASITOLOGY AND VIROLOGY Wednesday, December 04, 2002

Maximum Marks: 100

Time available: 3 Hours

3.

	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 Arboviruses. Explain the common mosquito borne Arbo viruses in India. 1. (35 marks)
- Mention the parasites present in the biliary tract. Explain the life cycle and laboratory diagnosis of Fasciola hepatica.

(35 marks)

- Write short notes on: (10x3 = 30 marks)
- 3A. Epstein bar-virus
- 3B. Hymenolepis nana
- 3C. Interleukin