MANIPAL UNIVERSITY

M. Sc. (FINAL) MICROBIOLOGY DEGREE EXAMINATION – AUGUST 2007 PAPER I: GENERAL MICROBIOLOGY AND IMMUNOLOGY

Wednesday, August 01, 2007

Illustrate your answers with neatly drawn and correctly labelled diagrams wherever

Write your answers that are brief, clear, relevant and legible.

Maximum Marks: 100

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

Time available: 3 Hours

appropriate.

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Answer ALL the questions.

Describe the bacterial cell structure.

	Debile in Carrella con State and	
		(25 marks)
2.	Describe the structure and function of immune system.	(25 marks)
3.	Write short notes on:	
3A.	Minimum inhibitory concentration.	
3B.	Bacterial mutation.	
3C.	Anaphylaxis.	
3D.	Autoimmunity.	
3E.	Heterophile agglutination tests.	

MANIPAL UNIVERSITY

M. Sc. (FINAL) MICROBIOLOGY DEGREE EXAMINATION – AUGUST 2007

PAPER II: SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Thursday, August 02, 2007

Ø	Write your answers that are brief, clear, relevant and legible.		
Ø	Illustrate your answers with neatly drawn and correctly labelled diagrams wherever		
	appropriate.		
1.	Classify Spirochaetes. Describe the pathogenesis and laboratory diagnosis of syphilis.		
	(25 marks)		

- Enumerate dimorphic fungi. Describe the pathogenesis and laboratory diagnosis of primary systemic mycoses.
 (25 marks)
- 3. Write short notes on:

Time available: 3 Hours

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Answer ALL the questions.

- 3A. Atypical Mycobacteria.
- 3B. O fever.
- 3C. Aspergillosis.
- 3D. Diarrhoegenic Escherichia coli.
- 3E. Melioidosis.

Maximum Marks: 100

MANIPAL UNIVERSITY

M. Sc. (FINAL) MICROBIOLOGY DEGREE EXAMINATION – AUGUST 2007 PAPER III: PARASITOLOGY AND VIROLOGY

Friday, August 03, 2007

Illustrate your answers with neatly drawn and correctly labelled diagrams wherever

Write your answers that are brief, clear, relevant and legible.

Maximum Marks: 100

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

Time available: 3 Hours

3D. Larva migrans.

3E. Kyasanur Forest Disease.

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Answer ALL the questions.

	appropriate.	
1.	List the blood and tissue protozoa. Describe the life cycle, pathogenicity and diagnosis of <i>Plasmodium vivax</i> .	laboratory
		(25 marks)
2.	List neurotropic virus. Discuss the laboratory diagnosis and prophylaxis of Rabies.	(25 marks)
3.	Write short notes on:	
3A.	Hymenolepis nana.	
3B.	Viral diarrhoea.	
3C.	Hepatitis E virus.	