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(Deemed University)

MD (MICROBIOLOGY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER I: GENERAL MICROBIOLOGY AND IMMUNOLOGY

Monday, July 03, 2006

Time: 3 Hrs. Max. Marks: 100

- Answer all questions.
- Write answers that are brief, clear, relevant and legible.
- Illustrate your answers with neatly drawn and correctly labeled diagrams wherever appropriate.
- 1. Classify disinfectants. Discuss the mechanisms of action, uses and testing of disinfectants.

(25 marks)

2 Define and classify hypersensitivity. Describe immediate hypersensitivity reactions.

(25 marks)

- Write short notes on:
- 3A. Major Histocompatibility Complex.
- 3B. ELISA.
- 3C. Electron microscope.
- 3D. Autoimmunity.
- 3E. Bacterial capsule.

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

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(Deemed University)

MD (MICROBIOLOGY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER II: SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Tuesday, July 04, 2006

Time: 3 Hrs. Max. Marks: 100

- Answer all questions.
- Write answers that are brief, clear, relevant and legible.
- Illustrate your answers with neatly drawn and correctly labeled diagrams wherever appropriate.
- 1. Describe the pathogenesis, laboratory diagnosis of infections with Group A Streptococcus.

(25 marks)

2. Discuss the pathogenesis and laboratory diagnosis of dermatophytoses.

- 3. Write short notes on:
- 3A. Botulism.
- 3B. Aspergillosis.
- 3C. Non-typhoidal Salmonellae.
- 3D. Mycoplasma.
- 3E. Haemophilus ducreyi.

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MD (MICROBIOLOGY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER III: PARASITOLOGY AND VIROLOGY

Wednesday, July 05, 2006

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1.	Describe	the	morphology,	life	cycle,	pathogenesis	and	laboratory	diagnosis	of
	Entamoeb	a histo	olytica.							

2. Describe the oncogenic viruses and mechanisms of oncogenesis.

(25 marks)

(25 marks)

Max. Marks: 100

- 3. Write short notes on:
- 3A. Slow virus infections.
- 3B. Larva migrans.

Time: 3 Hrs.

Answer all questions

- 3C. Viral markers of Hepatitis B.
- 3D. Concentration techniques of stool for parasites.
- 3E. Congenital toxoplasmosis.

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(Deemed University)

MD (MICROBIOLOGY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER IV: APPLIED MICROBIOLOGY AND RECENT ADVANCES

Thursday, July 06, 2006

Time: 3 Hrs.

Max. Marks: 100

- Answer all questions.
- Write answers that are brief, clear, relevant and legible.
- Ellustrate your answers with neatly drawn and correctly labeled diagrams wherever appropriate.
- 1. Discuss the molecular biology techniques in the diagnosis of infectious diseases.

(25 marks)

2. Describe the pathogenesis and molecular determinants of virulence in *Mycobacterium tuberculosis*.

- 3. Write short notes on:
- 3A. Hepatitis C virus infection in health care settings.
- 3B. Probiotics.
- 3C. Disposal of infectious waste.
- 3D. MRSA.
- 3E. Recent advances in malarial vaccine.

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(Deemed University)

MD (MICROBIOLOGY) DEGREE EXAMINATION - DECEMBER 2006

SUBJECT: PAPER I: GENERAL MICROBIOLOGY AND IMMUNOLOGY

Monday, December 04, 2006

Time: 3 Hrs.

✓ Answer all questions.

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

Illustrate your answers with neatly drawn and correctly labeled diagrams wherever appropriate.

1. Define and classify Immunity. Describe in detail the innate defense mechanism.

(25 marks)

2. Discuss polymerase chain reaction and its applications.

- 3. Write short notes on:
- 3A. Robert Koch.
- 3B. Bacterial conjugation.
- 3C. Outer membrane proteins.
- 3D. Autoimmunity.
- 3E. Graft versus Host reaction.

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(Deemed University)

MD (MICROBIOLOGY) DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER II: SYSTEMATIC BACTERIOLOGY AND MYCOLOGY

Tuesday, December 05, 2006

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

1. Describe the pathogenesis, laboratory diagnosis and prophylaxis of diphtheria.

(25 marks)

Max. Marks: 100

2. Discuss the laboratory diagnosis of fungal infections.

(25 marks)

3. Write short notes on:

appropriate.

3A. Enterococci.

Time: 3 Hrs

- 3B. Halophilic vibrios.
- 3C. Mycotoxins.
- 3D. Diarrhoeagenic Escherichia coli.
- 3E. Bacterial vaginosis.

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MD (MICROBIOLOGY) DEGREE EXAMINATION - DECEMBER 2006

SUBJECT: PAPER III: PARASITOLOGY AND VIROLOGY

Wednesday, December 06, 2006

Time: 3 Hrs. Max. Marks: 100

- Write answers that are brief, clear, relevant and legible.
- Illustrate your answers with neatly drawn and correctly labeled diagrams wherever appropriate.
- 1. Classify nematodes. Describe the morphology, life cycle, pathogenicity and laboratory diagnosis of *Ancylostoma duodenale*.

(25 marks)

2. Enumerate the viruses causing hepatitis. Describe the characteristics, pathogenesis and laboratory diagnosis of Hepatitis B infection. Add a note on its prevention.

- Write short notes on:
- 3A. Schistosoma haematobium
- 3B. Cytomegalovirus
- 3C. Laboratory diagnosis of toxoplasmosis
- 3D. MMR vaccine
- 3E. Hymenolepis nana.

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MD (MICROBIOLOGY) DEGREE EXAMINATION - DECEMBER 2006

SUBJECT: PAPER IV: APPLIED MICROBIOLOGY AND RECENT ADVANCES

Thursday, December 07, 2006

Time: 3 Hrs. Max. Marks: 100

- Write answers that are brief, clear, relevant and legible.
- Illustrate your answers with neatly drawn and correctly labeled diagrams wherever appropriate.
- 1. Discuss the aetiology and laboratory diagnosis of bacterial food poisoning. Add a note on methods of tracing the source of infection.

(25 marks)

2. Describe the quality control in diagnostic microbiology.

(25 marks)

- 3. Write short notes on:
- 3A. Avian influenza.
- 3B. Flow cytometry.
- 3C. Multidrug resistant tuberculosis.
- 3D. Penicillium marneffei.
- 3E. Microarray assay.

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

