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#### MD (MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2017

SUBJECT: PAPER I: GENERAL MICROBIOLOGY AND IMMUNOLOGY

Monday, April 03, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL questions.
- ∠ Long Essays:
- 1. Categorize pathogens according to hazard and categories of containment. Discuss various types of biosafety cabinets.

(15 marks)

2. What is Flow cytometry? Give its principle and uses in clinical microbiology.

(15 marks)

- 3. Write Short notes on:
- 3A. Modifications of Gram staining
- 3B. Activation of T-cells
- 3C. Methods of detection of endotoxins
- 3D. Parameters affecting antimicrobial susceptibility testing
- 3E. Edible vaccines and their future
- 3F. What are the triggers for activating alternate complement pathway? Discuss the outcome of its activation.
- 3G. What is redox-potential and what are its implications in microbiology?
- 3H. Vapour phase disinfectants
- 3I. DNA probes
- 3J. Immunosurveillance

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 

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# MD (MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2017 SUBJECT: PAPER II: BACTERIOLOGY AND MYCOLOGY

Tuesday, April 04, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essays:
- 1. Describe the Serological diagnosis of Syphilis.

(15 marks)

2. Enumerate the etiological agents of meningitis. Write in detail about the laboratory diagnosis of pyogenic meningitis.

(15 marks)

- 3. Write short notes on:
- 3A. Non gonococcal urethritis
- 3B. Aspergillosis
- 3C. Bacterial vaginosis
- 3D. Keratomycosis
- 3E. Meliodosis
- 3F. Antibiotic associated colitis
- 3G. Mycobacterium avium-intracellulare complex
- 3H. Laboratory diagnosis of Dermatophytes
- 3I. Blastomycosis
- 3J. Sporotrichosis

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 

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### MD (MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2017

SUBJECT: PAPER III: VIROLOGY AND PARASITOLOGY

Wednesday, April 05, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL questions.
- ∠ Long Essays:
- 1. Describe the pathogenesis and laboratory diagnosis of Poliomyelitis. Add a note on Global Polio Eradication Initiative.

(15 marks)

2. Describe the diagnostic methods for investigating a case of anemia with parasitic etiology.

(15 marks)

- 3. Write short notes on:
- 3A. Robo Viruses
- 3B. Parvovirus B19
- 3C. SARS
- 3D. Post-exposure prophylaxis for HIV
- 3E. Immunological evasion of parasites
- 3F. Loasis
- 3G. Multilocular Echinococcosis
- 3H. Teratogenic viruses
- 3I. Cultivable parasites
- 3J. Subacute sclerosing pan encephalitis

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 

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## MD (MICROBIOLOGY) DEGREE EXAMINATION – APRIL 2017

SUBJECT: PAPER IV: APPLIED MICROBIOLOGY & RECENT ADVANCES

Thursday, April 06, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions. Ø
- Draw diagrams wherever necessary. Ø
- Long Essays: Ø
- Describe the role of a microbiology laboratory in diagnosis and control of Health Care 1. Associated Infection.

(15 marks)

Write briefly about the Biosafety measures in Microbiological Laboratory. 2.

(15 marks)

- 3. Write Short Notes on:
- 3A. Biomedical waste management
- Biofilm and antibiotic resistance 3B.
- 3C. Childhood tuberculosis
- 3D. Recurrence of vivax malaria
- 3E. HIV-2
- 3F. Superantigens
- 3G. Real Time Quantitative PCR
- Antibiotic Resistance in Gram Positive cocci
- Serological tests in diagnosis of Parasitic infection 3I.
- 3J. Scrub typhus

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$