

MD (Microbiology)
Pre University Examination (2013 Batch)
Tuesday, 31-05-2016
Paper I (General Microbiology & Immunology)

Time: 3 Hours]

[Maximum Marks: 100

Note : Attempt all questions. Draw well labeled diagrams wherever necessary.

1. Describe hazardous procedures and discuss in details various aspects of safety organization in a Microbiology laboratory. [20]
2. Define and classify hypersensitivity reactions. Describe in details their mechanisms giving appropriate examples . [20]
3. Write short notes on: [10 X 3 = 30]
 - a. Major histocompatibility complex
 - b. Types of agglutination reactions
 - c. Immunoblotting
4. Describe briefly: [10 X 3 = 30]
 - a. High level disinfection
 - b. Catheter associated UTI
 - c. Genetic basis of methicillin resistance

MD (Microbiology)
Pre University Examination (2013 Batch)
Thursday, 02-06-2016
Paper II (Bacteriology & Mycology)

Time: 3 Hours]

[Maximum Marks: 100

Note : Attempt all questions. Draw well labeled diagrams wherever necessary.

1. Discuss aetiopathogenesis of endotoxic shock and its laboratory management. [20
2. Discuss aetiology, pathogenesis and laboratory diagnosis of non-venereal treponematoses. [20
3. Write short notes on: [10 marks X 3 = 30
 - a. Antifungal drugs
 - b. Virulence factors and laboratory diagnosis of *Corynebacterium diphtheriae*
 - c. Pathogenesis and laboratory diagnosis of Brucellosis
4. Describe briefly: [10 marks X 3 = 30
 - a. Mycetism
 - b. *Malassezia furfur*
 - c. Phaeohyphomycosis

MD (Microbiology)
Pre University Examination (2013 Batch)

Saturday, 04-06-2016

Paper III (Virology & Parasitology)

Time: 3 Hours]

[Maximum Marks: 100

Note : Attempt all questions. Draw well labeled diagrams wherever necessary.

1. Describe epidemiology, pathogenesis, clinical features and laboratory diagnosis of kala azar. [20]
2. Describe epidemiology, antigenic structure and treatment of Avian influenza. [20]
3. Write short notes on: [10 X 3 = 30]
 - a. Hepatitis E virus
 - b. Segmented viruses and significance of segments in biology of influenza virus
 - c. Describe pathogenesis of DHF and DSS.
4. Describe briefly: [10 X 3 = 30]
 - a. Importance of free living amoebae
 - b. Loeffler's pneumonia
 - c. Larva migrans

MD (Microbiology)
Pre University Examination (2013 Batch)
Monday, 06-06-2016
Paper IV (Recent Advances & Applied Science)

Time: 3 Hours]

[Maximum Marks: 100

Note : Attempt all questions. Draw well labeled diagrams wherever necessary.

1. Describe organization, work flow and functioning of central sterile supply department,
for a 1000 bedded hospital. [20
2. Discuss its risk factors, etiology, pathogenesis and the strategies for the
prevention of ventilator associated events. [20
3. Write short notes on: [10 X 3 = 30
 - a. Pulse immunization
 - b. MRSA
 - c. Types of endoscopes and their reprocessing
4. Describe briefly: [10 X 3 = 30
 - a. Genetically modified mosquito
 - b. Categories and segregation of biomedical waste
 - c. Post exposure prophylaxis of HIV.