

**RUHS Second MBBS (Main) Examination****Microbiology Paper -I****Date: January 2016      Time: 3 hours      Max Marks: 40**

Instructions:

Question 1 in Section A and Question 5 in Section B are Compulsory.

Attempt any two questions from rest of the questions in each section.

(Use separate answer sheet for each section)

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**SECTION - A**

1. Define sterilization & Disinfection. Discuss in detail about "Vapour phase disinfectants" (A. 33-34) (10)
2. Write Short notes on the following: (2 1/2 x 2 = 5)
  - a) Cell wall of bacteria (A. 17)
  - b) Immunoprophylaxis
3. Write briefly on (2 1/2 x 2 = 5)
  - a) Blood culture (A. 296, 342)
  - b) Staphylococcus toxins (A. 436)
4. Write briefly on (1 x 5 = 5)
  - a) Draw a labelled diagram of Bacterial growth curve (A. 22)
  - b) Define paradoxical carrier (A. 72)
  - c) Principle of immunochromatography
  - d) Write functions of immunoglobulin A (A. 93)
  - e) Segregation of biomedical waste (A. 651) 3 mins left in chapter 25%

**SECTION B**

5. Classify Mycobacteria. Describe the laboratory diagnosis of Pulmonary Tuberculosis (A. 343, 351, 352) (10)
6. Write Short notes on the following: (2 1/2 x 2 = 5)
  - a) Mechanism of antibiotic resistance in bacteria (A. 300)
  - b) Bacillary dysentery (A. 288)
7. Describe differences between the following; (2 1/2 x 2 = 5)

- a) Pathogenicity of *Pseudomonas aeruginosa* (A. 314)
  - b) Leptospirosis (A. 380)
8. Describe differences between the following (1 x 5 = 5)
- a) Which are the clinical forms of actinomycosis in humans? (A. 391)
  - b) Define MDR Tb
  - c) Name various Transport media (A. 43)
  - d) Classification of hypersensitivity reactions (A. 163)
  - e) Name two autoimmune diseases involving Thyroid gland

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