

**RUHS Second MBBS (Main) Examination****Microbiology Paper -I****Date: January 2017 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. Discuss in detail alternate complement pathway and biological effects of complement. (A. 123-124) (10)
2. Write Short notes on the following: ( $2 \frac{1}{2} \times 2 = 5$ )
  - a) Bacterial spore (A. 20)
  - b) Gaseous sterilization (A. 35)
3. Describe differences between the following; ( $2 \frac{1}{2} \times 2 = 5$ )
  - a) Laboratory diagnosis of syphilis (A. 373)
  - b) Laboratory diagnosis of pulmonary tuberculosis (A. 343, 351, 352)
4. Describe differences between the following; ( $1 \times 5 = 5$ )
  - a) Enriched media (A. 40)
  - b) Inspissation
  - c) Satellitism (A. 328)
  - d) Koch's postulates
  - e) Zone phenomenon (A. 105)

**SECTION B**

5. Enumerate causes of sore throat and discuss in detail laboratory diagnosis. (A.239) (10)
6. Write Short notes on the following: ( $2 \frac{1}{2} \times 2 = 5$ )
  - a) Primary atypical pneumonia
  - b) Gas gangrene (A. 258)
7. Describe the following; ( $2 \frac{1}{2} \times 2 = 5$ )

- a) Type - I hypersensitivity (A. 163)
  - b) Genetic mechanism of drug resistance (A. 63)
8. Describe differences between the following; (1 x 5 = 5)
- a) Bacterial vaccines
  - b) Catalase test
  - c) Morphological groups of bacteria
  - d) Passive agglutination (A. 109)
  - e) Superantigens

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