

**RUHS Second Year MBBS (main) Examination****Microbiology Paper -I****Date: February 2019 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 immunity. Describe different types of immunity in detail. (A. 81) (10)
2. Write in brief:
  - a) Describe bacterial cell wall structure. Explain mechanism of action of (3-lactamantibiotics over it.
  - b) Uses of aldehydes in hospital
3. Write in brief:
  - a) Mechanism & clinical presentation of Type- I hypersensitivity reaction
  - b) Factors determining bacterial virulence
4. Write in brief:
  - a) Gene transfer mechanism amongst bacteria
  - b) Different methods of blood culture. (A. 296, 342)

**SECTION B**

5. Discuss laboratory methods for diagnosis of pulmonary and extra pulmonary tuberculosis. (A. 343, 351, 352)
6. Write in brief:
  - a) Pathogenesis & laboratory diagnosis of gas gangrene (A. 258)
  - b) What is Probiotics?
  - c) Significant bacteriuria (A. 278)
7. Write Short notes on the following.
  - a) Bacterial food poisoning
  - b) Name organism which may cause urethritis

- c) Mention morphological features of *C. diphtheria*
- 8. Write in brief.
  - a) Scrub typhus
  - b) What is zoonotic disease? Enumerate some zoonotic diseases

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