

**RUHS Second MBBS (Main) Examination****Microbiology Paper -I****Date: February 2018    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 and disinfection. Describe the principle and functioning of an autoclave. (A. 29,31,33) (10)
2. Write Short notes on the following: (4 x 1 1/4 = 5)
  - a) Coagulase test (A. 204)
  - b) Bacterial capsule (A. 18)
  - c) Selective media (A. 42)
3. Write Short notes on the following: (4 x 1 1/4 = 5)
  - a) Pasteurization (A. 30)
  - b) Classify pathway of complement (A. 123-124)
  - c) Atopy
4. Write Short notes on the following: (4 x 1 1/4 = 5)
  - a) Structure of IgG (A. 96)
  - b) Classification of streptococci (A.218, 220, 225)
  - c) Pathogenesis of cholera (A. 306,309, 676)

**SECTION B**

5. Define immunity. Classify different types of immunity. Write in detail about acquired immunity. (A. 81) (10)
6. Write Short notes on the following: (4 x 1 1/4 = 5)
  - a) Anaphylaxis (A. 163)
  - b) Primary and RUHS Secondary immune response (A. 152)

7. Write Short notes on the following; ( $4 \times 1 \frac{1}{4} = 5$ )
  - a) Standard tests of syphilis (A. 473)
  - b) ELISA (A. 114)
8. Write Short notes on the following; ( $4 \times 1 \frac{1}{4} = 5$ )
  - a) Laboratory diagnosis of urinary tract infection (A. 277, 670)
  - b) Widal test (A. 298)

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