

**RUHS Second MBBS (Main) Examination****Microbiology Paper -I****Date: January 2015 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)

SECTION - A1. Describe the morphology, pathogenicity, and laboratory diagnosis of *Corynebacterium diphtheria*. (10)

2. Write Short notes on the following:

- a) Principle of autoclave (A. 31)
- b) Differences between exotoxin and endotoxin (A. 75)

3. Describe briefly (2 x 2 1/2 = 5)

- a) Lab diagnosis of enteric fever (A. 296, 681)
- b) Biological effects of complement (A. 123-124)

4. Describe briefly (2 x 2)

- a) β -lactam antibiotics
- b) Enriched medium (A. 40)
- c) Secretory immunoglobulin
- d) Principle of precipitation (A.104)
- e) Organisms causing non-gonococcal urethritis (A. 234)

SECTION - B

5. Enumerate various hypersensitivity reactions. Describe the mechanism of anaphylaxis with suitable examples (A.163) (10)

6. Write Short notes on the following: (2 1/2 x 2 = 5)

- a) Plasmids (A. 18)
- b) ZN smear evaluation of sputum

7) Describe differences between the following; (2 1/2 x 2 = 5)





- a) Cutaneous anthrax
 - b) Escherichia coli associated diarrhoea (A. 277)
8. Describe differences between the following; (1 x 5 = 5)
- a) Lepromin test (A. 367)
 - b) Heterophile antibodies (A. 89)
 - c) Swarming (A. 282)
 - d) ASO test
 - e) Castaneda medium

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