

**RUHS Second MBBS (Main) Examination****Microbiology Paper -I****Date: January 2011      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 gas gangrene? Describe pathogenesis and laboratory diagnosis of gas gangrene. (A. 258) (10)
2. Write Short notes on the following: (2 1/2 x 2 = 5)
  - a) IgA (A. 97 Fig. 11.4) (C. 117)
  - b) Anaerobiosis (A. 46)
3. Write Short notes on the following: (2 1/2 x 2 = 5)
  - a) Chemical disinfectants (A. 33)
  - b) Precipitation (A. 104)
4. Discuss Type I hypersensitivity reaction. (A. 163) 05

**SECTION B**

5. Male aged 27 develops acute effortless diarrhoea and vomiting after visiting his hometown on previous day. There is no abdominal pain or fever. (2 1/2 x 4 = 10)
  - a) What is your provisional diagnosis? Enumerate bacteria causing diarrhoea (A. 306, 309, 676)
  - b) Enumerate various types of media used for this organism
  - c) Write laboratory diagnosis by culture in short.
  - d) How will you confirm the diagnosis?
6. Write Short notes on the following: (2 1/2 x 2 = 5)
  - a) Laboratory diagnosis of chlamydia trachomatis
  - b) Blood culture (A. 296, 342)
7. Write Short notes on the following: (2 1/2 x 2 = 5)

- a) Tuberculin test (A. 350)
  - b) Passive Immunity (A. 81)
8. Write Short notes on the following (2 1/2 x 2 = 5)
- a) Urinary tract infection (A. 277,670)
  - b) Endotoxin (A. 75)

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