

RUHS

Second Year MBBS Examination

MBBS MICROBIOLOGY PAPER I

Time: 3 hours

Max Marks: 40

Date: 10-10-2020

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 1

1. Discuss the production of monoclonal antibodies and their applications. (10)

2. Write short notes on: (5)

a. Bacterial growth curve (A. 22)

b. Spaulding classification of medical devices

3. Write briefly on: (5)

a. Laboratory diagnosis of typhoid fever

b. Molecular methods for T. B. diagnosis

4. Write briefly on following: (5)

- a. Capsule and slime layer
- b. Autoclave(A. 31)
- c. Transport media(A. 43)
- d. Lyophilization

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Section 2

5. Enumerate the causes of diarrhea and discuss in detail its laboratory diagnosis. (A. 306, 309, 676) (10)

6. Write short notes on: (5)

- a. Non suppurative complications of streptococcus pyogenes infection.
- b. Scrub typhus

7. Write briefly on: (5)

- a. Type IV hypersensitivity
- b. Immunocromatographic tests

8. Adjuvants (5)

- a. Coagulase test
- b. Plasmid
- c. Difference between mutational and transferable drug resistance.
- d. Live vaccines.
