

M. Sc. (MEDICAL MICROBIOLOGY): Winter-2022
SUBJECT : PAPER – II
(SYSTEMATIC BACTERIOLOGY)

Day : Monday

Time : 01:30 PM-04:30 PM

Date : 19-12-2022

W-793-2022

Max. Marks : 100

N. B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
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Q. 1 Describe the pathogenesis and laboratory diagnosis of pulmonary tuberculosis. (15)

Q. 2 Describe the difference between bacillary and amoebic dysentery. Describe the laboratory diagnosis of shigellosis. (15)

Q. 3 Write briefly **ANY SEVEN** of the following: (70)

- a) Enumerate organisms causing UTI. Describe laboratory diagnosis of UTI caused by E.coli.
- b) Describe laboratory diagnosis of leptospirosis.
- c) Describe the virulence factors, pathogenicity and laboratory and diagnosis of Staphylococcus aureus. Add a note on PVL toxin.
- d) Enumerate the differences in the biochemical, cytological laboratory findings in Cerebrospinal fluid examination to differentiate between bacterial, viral and tubercular meningitis.
- e) Enumerate organisms causing Gastroenteritis. Describe the laboratory diagnosis of Cholera.
- f) Discuss the laboratory diagnosis of Whooping Cough. Add a note on its prophylaxis.
- g) Enumerate the organisms causing food poisoning. Discuss the laboratory diagnosis of clostridium botulinum food poisoning.
- h) Discuss laboratory diagnosis of Corynebacterium diphtheriae and add a note on its immune-prophylaxis.

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