

**M.Sc. (MEDICAL MICROBIOLOGY): Winter-2021**  
**SUBJECT : PAPER – II : SYSTEMATIC BACTERIOLOGY**

**Day** : Wednesday  
**Date** : 15-12-2021

**Time** : 1:30 P.M. TO 4:30 P.M.  
**Max. Marks** : 100

**W-793-2021**

**N.B.**

- 1) Q.No. 1 and Q.No. 2 are **COMPULSORY**.
- 2) Attempt **ANY SEVEN** questions from **Q.No. 3 and Q.No. 10**.
- 3) Figures to the **RIGHT** indicate **FULL** marks.
- 4) Draw neat and labeled diagram **WHEREVER** necessary.

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- Q.1** Enumerate organisms causing zoonotic infections. Describe leptospirosis in detail. (15)
  - Q.2** Describe the laboratory diagnosis of Pulmonary tuberculosis with emphasis on recent techniques used. (15)
  - Q.3** Classify Streptococci. Describe the pathogenicity and laboratory diagnosis of Streptococcus pyogenes. (10)
  - Q.4** Enumerate organisms causing Urinary tract infection and describe its laboratory diagnosis. (10)
  - Q.5** Describe the morphology, cultural characteristics, pathogenicity and laboratory diagnosis of Brucella abortus. (10)
  - Q.6** Describe the morphology, cultural characteristics, pathogenicity and laboratory diagnosis of Clostridium perfringes. (10)
  - Q.7** Enumerate organisms causing pyogenic meningitis and describe the laboratory diagnosis of meningococcal meningitis. (10)
  - Q.8** Write about Halophilic vibrios. (10)
  - Q.9** Describe the toxigenicity testing of Corynebacterium diphtheriae. Add a note on its prophylaxis. (10)
  - Q.10** Describe briefly about the Chlamydial infections found in man. (10)

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