

M.Sc. (MEDICAL MICROBIOLOGY): *Winter 2021*
SUBJECT : PAPER – I : GENERAL MICROBIOLOGY

Day : Monday
Date : 13-12-2021

Time : 01:30 PM-04:30 PM
Max. Marks : 100

W-792-2021

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** Describe the microbial factors that contribute to the virulence of bacteria. (15)
- Q.2** Write about Quality control in a microbiology laboratory . (15)
- Q.3** Describe in brief the various antibiotic susceptibility testing methods used in a diagnostic microbiology laboratory. (10)
- Q.4** Describe different staining techniques used for diagnosis in a microbiology laboratory. (10)
- Q.5** Classify culture media with examples. Describe commonly used culture media with their uses. (10)
- Q.6** Describe the role of a florescent microscope in diagnostic microbiology. (10)
- Q.7** Write about chemical disinfectants used in a healthcare setting? Add a note on methods used for testing efficacy of disinfectants. (10)
- Q.8** Describe bacterial cell wall. Add a note on L forms. (10)
- Q.9** Write about the different methods used for the preservation of stock cultures. (10)
- Q.10** What is Polymerase chain reaction (PCR) ? Write about the types of PCR and their applications. (10)
