

PG CBCS
M.Sc. Semester-II Examination, 2022
MEDICAL LABORATORY TECHNOLOGY
PAPER: MLT 296
(MICROBIOLOGY AND MOLECULAR BIOLOGY LAB)

Full Marks: 50

Time: 4 Hours



The figures in the right - hand margin indicate full marks.
 Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

- 1. Answer all questions:** **2X15=30**
- a) Write the importance of each of these chemicals used in Gram staining: primary stain, mordant, decolorizing agent, and counter stain. Identify the bacterium of the supplied sample A or B by following the process of Gram staining. 6+9
- b) Why IMViC test is performed? Write down the principle of citrate test? Identify the citrate positive or negative of the supplied sample A or B. 2+3+10

GROUP - B

- 2. Answer any one questions:** **1×10=10**
- c) Write the principle of autoclave? Isolate bacteria from the supplied sample A or B. 3+7
- d) Write the principle of negative stain? Isolate fungi from the supplied sample A or B. 3+7

GROUP - C

- 3. Laboratory note book and viva-voce.** **5+5**
