

PG CBCS
M.Sc. Semester-IV Examination, 2022
MEDICAL LABORATORY TECHNOLOGY (MLT)
PAPER: MLT 494B
(MOLECULAR BIOLOGY LAB)

Full Marks: 50**Time: 3 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.

Marks: 40
GROUP - A

1. Answer any all questions:**2×15=30**

- a) What is the principle of transformation? Isolate bacterial mutants from supplied sample through the physical or chemical mutagen. (3+12)
- b) What is principle of transduction? Determine the conjugative potential of the supplied samples. (3+12)

GROUP - B**2. Answer any one questions:****1×10=10**

- a) What do you mean by the Hfr strain? Draw a phylogenetic tree through CLUSTAL by the supplied sequence A or B.
- b) How lytic cycle is differs from lysogenic cycle? Draw a phylogenetic tree through one click by the supplied sample A or B.

GROUP - C**3. Answer any four questions:**

Laboratory notebook and viva-voce.

(5+5)

