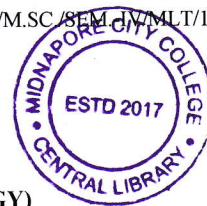


PG CBCS
M.Sc. Semester- IV Examination, 2023
MEDICAL LABORATORY TECHNOLOGY
PAPER: MLT 403B
(DIAGNOSTICS AND APPLIED MICROBIOLOGY)



Full Marks: 40

Time: 2 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

Answer any **FOUR** of the following questions.

2×4=8

1. Define cohort studies.
2. What are the symptoms of SARS?
3. Mention the procedures of quality control.
4. Give any two reasons of biofilm production by the microorganisms.
5. How milk borne diseases can be prevented?
6. What do you mean by barrier nursing and reverse barrier nursing?

GROUP-B

Answer any **FOUR** questions:

4×4=16

7. Describe emerging infectious diseases?
8. What are different biochemical tests conducted in the diagnosis of diphtheria?
9. Write down the different automated systems used in the lab diagnosis of disease
10. Discuss about the spill management of blood and body fluids in hospitals.
11. Briefly describe analytical studies in epidemiology?
12. Write down different types of standard precautions usually practicing by the healthcare personnels to prevent healthcare associated infections?

GROUP-C

Answer any **TWO** questions:

2×8=16

13. How coccidioidomycosis is spread in our body? What are different signs and symptoms of Covid-19? 6+2
14. Describe extrapulmonary tuberculosis. Mention different procedures for the diagnosis of tuberculosis. 4+4
15. State the different types of vaccine with example. Write down the procedure of recombinant insulin production. 5+3
16. Why is mullipeex PRC preferred for laboratory diagnosis of infections disease? Explain the diagnostic value of real time PCR. 5+3