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7. Why is UV used in laminar air flow?

8. Write the principle of immunoassay.

Group - B

Answer any ***four*** questions. 5×4=20

9. Write the Beer-Lambert's law for absorption spectroscopy. What are the limitations of Beer-Lambert law? 3+2

10. Discuss about the different types of auto analyzers and its clinical applications. 5

11. Write a brief note on sandwich ELISA. 5

12. Why is autoclave used for sterilization and to decontaminate laboratory materials? 5

13. Differentiate between light and electron microscope. 5

14. Write the purpose of calibration and control of medical laboratory equipment. 5

Group - C

Answer any ***one*** question. 10×1=10

15. Discuss about different types of centrifugal instruments and its applications in clinical laboratory. Write a note on laboratory safety. (2+3)+5

16. Discuss about different types of spectrophotometers and its applications in clinical laboratory. 6+4

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2024

2nd Semester Examination

BMLT

Paper : BMLT C 4-T

(Diagnostic Laboratory Instrumentation)

Full Marks : 40 Time : Two Hours

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

Group - A

Answer any ***five*** questions : 2×5=10

1. What is meant by electrophoretic mobility?

2. Write the use of HEPA filter.

3. Define chromatogram.

4. What is the difference between QA and QC?

5. What is meant by magnification power of the microscope? Give example. 1+1

6. Which light source is used in colorimeter? Why filter is used in colorimeter? 1+1

P.T.O.