

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. 3x10=30

Q.33 Explain Photo-Colorimeter with block diagram?

Q.34 Explain Spectrophotometer with diagram?

Q.35 Explain Flame Photometer with Diagram?

Q.36 Write note on following:

- a) Centrifuge Machine
- b) Microscope

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4th Sem. / Medical Electronics

**Subject : Medical Laboratory Instruments (MLI) /
Analog Inst. (BM)**

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Objective type questions. All questions are compulsory (10x1=10)

Q.1 Define Analytical Instrumentation.

Q.2 Expand LPG.

Q.3 What is Sterilization?

Q.4 Chromatography.

Q.5 HPLC stands for _____?

Q.6 Transmittance.

Q.7 Electrode.

Q.8 What do you mean by Colorimetry?

Q.9 Expand PMT.

Q.10 Expand RCF.

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SECTION-B

Note: Very short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20

- Q.11 Write names of two Detectors used in analytical measurements.
- Q.12 Define Conductance.
- Q.13 What do you mean by Diffraction Grating.
- Q.14 What is Monochromator.
- Q.15 Define PH.
- Q.16 Expand TLC.
- Q.17 What is Atomizer.
- Q.18 Explain Beer's Law?
- Q.19 Centrifuge.
- Q.20 Electro-Magnetic Spectrum?
- Q.21 Dialyzer?
- Q.22 Optical Filter?

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SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. 8x5=40

- Q.23 Explain the significance of PH Measurement w.r.t Blood?
- Q.24 Explain Auto-Analyzer with diagram?
- Q.25 Explain Microscopic method of Blood cell counting.
- Q.26 Explain Diffraction Grating.
- Q.27 Discuss various types of Light sources used in analytical instrumentation.
- Q.28 Write a note on Atomizer with Diagram?
- Q.29 Explain Beer Lambert Law?
- Q.30 Write a short note on Acid Base Balance in body?
- Q.31 Explain Optical Filters with classifications?
- Q.32 Explain Photo Multiplier Tube with diagram?

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