

Q1A	Explain the different types of sensors used in Healthcare.	7 Marks
Q1B	Enlist the various instruments used in Clinical Laboratory.	7 Marks
OR		
Q1A	Define the word calibration and enlist the types of calibration.	7 Marks
Q1B	Describe types of sensors according to measurement objectives.	7 Marks
OR		
Q2A	Define about automation. Explain different automation used in clinical laboratories.	7 Marks
Q2B	Describe in depth about LIS and core components of LIMS.	7 Marks
OR		
Q2A	Enlist the types of Auto analyser used in Clinical laboratory.	7 Marks
Q2B	Write a short note on process of automation.	7 Marks
OR		
Q3A	Enlist the steps taken during the process of Pre analysis.	7 Marks
Q3B	Describe in depth about QC management in Clinical Laboratory.	7 Marks
OR		
Q3A	What is Accuracy and Precision and explain about it in depth.	7 Marks
Q3B	Describe in depth about QA management in Clinical Laboratory.	7 Marks
OR		
Q4A	Enlist the Impact of miscalibration of instruments.	7 Marks
Q4B	Describe the various types of trouble-shooting occurs in Clinical Laboratory.	7 Marks
OR		
Q4A	Enlist the general care and maintenance of laboratory equipment.	7 Marks
Q4B	Describe the various way of sample contamination occurs in Clinical Laboratory.	7 Marks

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Q5	Answer the following questions (Any Seven)	14 Marks
I	Write the difference between sensor vs transducers.	2 Marks
II	Define: SI unit, traceability, uncertainty, resolution.	2 Marks
III	Enlist the classification of laboratories.	2 Marks
IV	Write the difference between distillation vs purification.	2 Marks
V	Write the full form of: NABL, EQAS, LIS, CAP.	2 Marks
VI	Enlist the uses of Control in Clinical Laboratory.	2 Marks
VII	Enlist the various types of equipment used in Clinical Laboratory.	2 Marks
VII	Explain signal-interference.	2 Marks
IX	What is difference between QC and QA?	2 Marks
X	What is the role of sensors in healthcare monitoring systems? Give one example.	2 Marks
XI	Differentiate between accuracy and precision with a simple example related to laboratory testing.	2 Marks
XII	What are the common causes of sample contamination in a clinical laboratory?	2 Marks

BEST OF LUCK