

Post graduation (M.D. - Biochemistry) Preliminary Theory Examination
Government Medical College , Bhavnagar

Paper-4 (Technique in experimental biochemistry, Recent advances)

Date : 21/10/2024

Marks : 100

Q-1 Write detail notes on following. (20 Marks)

- Define and enumerate pre-analytical, analytical and post-analytical error with it's biochemical impact on patient's report. Explain relevant two – two quality indicators to corrected these error for each three zone of the clinical biochemistry laboratory, with it's measurable objective and monitoring policy.

Q-2 Write detail notes on following. (20 Marks)

- Type , principle, technic, significant and factor affecting protein electrophoresis

Q-3 Write short notes on following. (20 Marks)

1. Requirement as per ISO 15189:2022 and NABL-112 for internal quality control implementation and policy for finding as well as updation of mean & SD.
2. Technic for root cause analysis.

Q-4 Write short notes on following. (40 Marks)

1. Dry vs Wet Chemistry Analyzer.
2. Requirement of good LIS in clinical biochemistry laboratory.
3. Define and strategy for Risk management.
4. Alternate approach for proficiency testing, in non-availability of commercial EQAS.
5. Advantages and disadvantages of POCT
6. Role and responsibility of quality manager.
7. Write blood and urine investigation require for differential diagnosis of renal failure
8. Kinetic vs Fix Time Kinetic method.