

Post graduation (M.D. - Biochemistry)

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

Date : 14/08/2026

Marks : 100

Q-1 Write detailed notes on the following.**(20 Marks)**

- Definition of quality indicator (QI) with it's standard requirements as per ISO 15189:2022.
- Define quality indicator for period of sample collection to sample receipt at laboratory (minimum four QI) with process of it's monitoring and measuring elements.
- Write quality policy and quality objective according to your defined quality indicator

Q-2 Write detailed notes on the following.**(20 Marks)**

- Principle and utility of Fourier Transform Infrared (FTIR) spectroscopy in clinical biochemistry laboratory. Approach to validate the result of FTIR.

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

1. Type ,Plan, Strategy and reporting - Internal audit of Clinical Laboratory as per NABL requirement.
2. Purpose, objective, component and assessment of "Foundation Course" for First year Indian Medical Graduate (IMG)

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

1. Kinetic method vs Fix time kinetic method
2. Biochemical investigation for prognosis and differential diagnosis of hypertensive patients.
3. Type and approach for proficiency testing for clinical biochemistry parameters.
4. Defined and write required criteria of harmonization (comparability) as per ISO 15189:2022.
5. Dry Chemistry Analyzer vs Wet Chemistry Analyzer
6. Document Control and Control of Record as per ISO 15189:2022
7. Delta Bilirubin - Define and Clinical significant.
8. Sample acceptance exception in case of wrong vacuette (Write minimum 2 scenario)