1. Basic Laboratory Procedures:
   - Disinfection, Laboratory safety, first aid.
   - Biochemical samples and their collection, preservatives, anticoagulants.
   - Preparation of solutions and reagents.
   - Laboratory reporting systems, biological variations, chemical interference, Normal/reference range.
   - Expression of results of biochemical investigations- various units.
   - Quality management of laboratory-standardization and calibration.
   - Biomedical waste disposal.
   - Laboratory record keeping, Accreditation.

2. Biochemical Instruments/Technique:

3. Estimation of various biochemical parameters.


5. Chemistry, metabolism & Inborn errors of:
   - (a) Carbohydrates
   - (b) Lipids
   - (c) Amino Acid & Proteins
   - (d) Nucleotides

6. Enzymes
7. Vitamins
8. Mineral Metabolism and abnormalities
9. Acid-base balance & pH
10. Electrolyte and water balance.
11. Heme synthesis & Breakdown
12. Energy metabolism & Nutrition
13. Hormones
14. Environmental Biochemistry
15. Immunochemistry
16. Biochemistry of Cancer
17. Biochemistry of HIV & AIDS

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Pattern of Question Papers:

1. Objective Type Paper
2. Maximum Marks : 100
3. Number of Questions : 100
4. Duration of Paper : Two Hours
5. All Questions carry equal marks
6. There will be Negative Marking

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