

**QP Code:104103**

**Reg. No.:.....**

**PG Degree Regular/Supplementary Examinations in Biochemistry  
(MD) July 2023**

**Paper IV - Clinical Biochemistry & Endocrinology**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay:**

**(20)**

1. Define laboratory automation. Explain

**Short essays:**

**(8x10=80)**

2. Metabolic alterations in diabetics mellitus and the biochemical basis of its Management.
3. Role of biomarkers in acute coronary syndrome
4. Laboratory analysis of gall stone and kidney stone
5. Point of care testing
6. Amniocentesis and its applications
7. Extrathyroidal factors affecting thyroid functions
8. Non-alcoholic fatty liver disease
9. Alteration in biochemical parameters in COVID-19 infection

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