

BIOCHEMISTRY

PAPER – I

Time : 3 hours
Max. Marks : 100

BIO/D/17/03/I

Important instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. a) Internal Quality Control 5+5
b) Proficiency testing
2. Important biochemical cardiac markers useful for early and late diagnosis of acute myocardial infarction. 5+5
3. Biochemical risk factors for coronary artery diseases (CAD). Add a note on Lp(a). 7+3
4. Examination of amniotic fluid and its importance in prenatal diagnosis. 6+4
5. Biochemical basis and clinical features of Gout. Add a note on investigations and different treatment modalities. (3+2)+(3+2)
6. a) Metabolic acidosis 5+5
b) Anion gap
7. Enumerate unsaturated fatty acids and their physiological & nutritional significance. 4+6
8. Glycated hemoglobin, different forms, interpretation and false positive /negative results. 2+2+4+2
9. a) Genetic diagnosis of HIV infection. 5+5
b) Biochemical parameters estimated in Cerebrospinal Fluid (CSF) for diagnosis of different types of meningitis.
10. a) Adenosine deaminase deficiency 5+5
b) Bence Jones protein
