

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:

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| 1. | a) Internal Quality Control b) Proficiency testing | 5+5 |
| 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 b) Anion gap | 5+5 |
| 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. b) Biochemical parameters estimated in Cerebrospinal Fluid (CSF) for diagnosis of different types of meningitis. | 5+5 |
| 10. | a) Adenosine deaminase deficiency b) Bence Jones protein | 5+5 |
