

BIOCHEMISTRY**PAPER – III**Time : 3 hours
Max. Marks : 100

BIO/D/17/03/III

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. Role of chaperones in protein folding and diseases associated with protein misfolding. | 6+4 |
| 2. Define mutation, different types and its manifestations. | 1+3+6 |
| 3. DNA damage and repair mechanisms, and clinical aspects. | 3+3+4 |
| 4. Monoclonal antibody, their uses and related clinical aspects. | 6+4 |
| 5. Immunological tests for thyroid functions. | 10 |
| 6. Explain tumour index substances, their role in diagnosis and prognosis. | 6+4 |
| 7. a) Telomerase activity in ageing. b) Anticancer drugs influencing cell cycle. | 5+5 |
| 8. a) Apoptosis b) Immunological memory | 5+5 |
| 9. a) Cell mediated immunity b) Complement system | 5+5 |
| 10. a) Mitochondrial DNA b) Protein targeting | 5+5 |
