

15122

M.Sc. DEGREE EXAMINATION, NOVEMBER 2016.

FIRST SEMESTER

Genetics and Genomics

Paper II — BIOMOLECULES

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

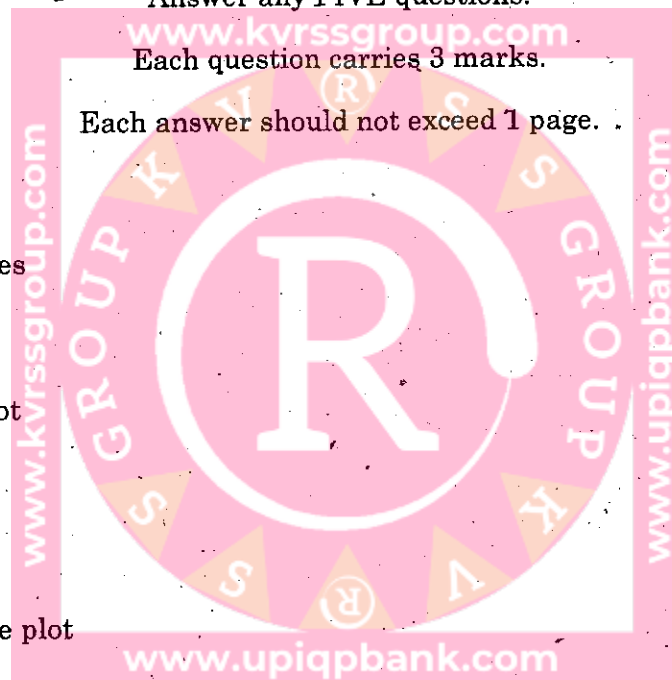
PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Glycogen
2. Mucopolysaccharides
3. Peptide bond
4. Ramachandran plot
5. Phospholipids
6. t-RNA
7. Line weaver-Burke plot
8. Lysozymes.



PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Write about classification, structure and functions of carbohydrates.

Or

10. Write about structure, occurrence and biological significance of polysaccharides.

11. Describe the classification of amino acids along with their structures.

Or

12. Explain different levels of protein organization and give the functions of proteins.

13. Write about structure, classification and properties of lipids.

Or

14. Write about different types of DNA and add a note on its denaturation and renaturation.

15. Write about the classification and nomenclature of enzymes.

Or

16. Write about factors affecting enzyme activity and modes of enzymes inhibition.

