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(Printed Pages 3)

(20425)

Roll No. . . 8006

B.Sc.(Bio-Tech.) - III yr.

Vidushi

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B.Sc. (Biotechnology)

Examination, April-2025

GENOMICS AND PROTEOMICS

(BN-307)

(B.Sc. Bio-tech.)

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt any five questions. All questions carries equal marks.

- Discuss the acquisition of new genes and its impact an genomes and human evolution.
- Explain the concept of DNA-based phylogenetic trees and their use in evolutionary biology.

P.T.O.

- 3. Write short notes on:
- 7.5+7.5
- (a) Transcript and functional maps
- (b) Physical maps.
- Define genetic maps and describe their importance in genome mapping.
- What is whole genome shot gun sequencing? Explain its methodology and advantages.
- 6. Write short notes on: 7.5+7.5
 - (a) 2D PAGE
 - (b) LC-MS
- Discuss the management of genomic data in silico and its importance in bio informatics.
- 8. Write short notes on: 7.5+7.
 - (a) MALDI
 - (b) SALDI
- 3479/2

- 9 Explain the concept and approaches of proteomics studies and their significance. 15
- Define QSAR and discuss its application in drug discovery and development. 15