PART - B

Answer any 6 questions. Each question carries 2 marks.

- 7. PrimarySeq.
- 8. Operators in Python.

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- 9. NCBI Toolkit.
- 10. MatLab.
- 11. Bioinformatics ToolBox.
- 12. F distribution.
- 13. Dispersion.
- 14. Descriptive statistics.

 $(6 \times 2 = 12)$

PART - C

Answer any 4 questions. Each question carries 3 marks.

- 15. Discuss the major objects in BioPerl.
- 16. Examine the need of BioPython in Computational Biology.
- 17. Discuss the major types of central tendency.
- 18. Discuss the role of correlation analysis in computational biology.
- 19. Discuss the significance of t-test for the testing of hypothesis.
- 20. What is ANOVA? Discuss.

 $(4 \times 3 = 12)$

PART - D

Answer any 2 questions. Each question carries 5 marks.

- 21. Discuss the major types of algorithms commonly employed in computational biology.
- 22. What do you mean by sampling? What are the major types of sampling?
- 23. What are the major methods used for the representation of data?
- 24. Discuss the importance of simple and linear regression analysis in Computational biology with suitable examples. (2x5=10)