

18. What is the role of INSDC?

19. Mention any one tool used for multiple sequence alignment.

20. What is an OTU?

PART B

Answer the following each within 500 words.

(5 x 8 = 40 Marks)

Draw diagrams wherever necessary

21. (a) Write briefly about the objectives of research.

OR

(b) Give a note on data presentation methods.

22. (a) Briefly explain the method of regression analysis.

OR

b) Write a note about the data types and classification.

23. (a) Write an account on ENTREZ.

OR

(b) Give an account on the flat file format of Genbank.

24. (a) Compare the tools used for local alignment and global alignment.

OR

(b) Write briefly about scoring matrix.

25. (a) Illustrate any one method used for tree building.

OR

(b) Summarize the findings of Kimura's neutral theory.

PART – C

Answer any TWO of the following, each within 1500 words.

(2 x 20 = 40 Marks)

Draw diagrams wherever necessary.

26. Give a detailed account on ANOVA software in statistics.

27. Discuss the importance of different sampling methods.

28. Write an essay on the sequence and structure databases.

29. Elaborate on the eukaryotic gene prediction.

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