

S.No. 5680

16 SACBS 2

(For candidates admitted from 2016–2017 onwards)

B.Sc. DEGREE EXAMINATION, APRIL 2022

Part III – Allied

**BIOINFORMATICS AND COMPUTER
APPLICATIONS IN BIOLOGY**

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20)

Answer ALL questions.

1. Write about Areas of Computer applications?
2. Highlight the features of Operating Systems?
3. What is LAN?
4. List out some of the common Search Engines used?
5. Give the Scope of Bioinformatics?
6. What is GenPept?
7. What is Clustal W used for?

8. Why are data in bioinformatics represented in Fasta format?
9. Give the significance of PDB?
10. What is CATH?

PART B — ($5 \times 5 = 25$)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write about the various Memory units of computer.

Or

- (b) What are the features of Operating systems?

12. (a) How can you create an E mail Address?

Or

- (b) How can you create a Web Page?

13. (a) Write about the features of Biological databases?

Or

- (b) Discuss the structure and features of GenBank?

14. (a) What are the types of Biological databases. Explain.

Or

- (b) Elaborate on the applications of Sequence Alignment techniques?

15. (a) Write a note on Swiss-PROT.

Or

- (b) Highlight the features of SCOP protein classification tool?

PART C — ($3 \times 10 = 30$)

Answer any THREE questions.

16. Describe the characteristics of Memory and Control Units of Computers?
17. How can you create an E-mail address? Explain
18. Explain the features of NCBI?
19. Give a detailed account on BLAST?
20. Detail an account on PDB?