041873

K19U 2201

Reg. No. : .....

Name : .....

V Semester B.Sc. Degree (CBCSS-Reg./Sup./Imp.) Examination, November - 2019

(2014 Admission Onwards)

CORE COURSE IN BIOCHEMISTRY

SB08 BCH : COMPUTATIONAL TECHNIQUES IN BIOCHEMISTRY

Time : 3 Hours Max. Marks : 40

SECTION - A

Write about each of the following in **2 or 3** sentences. Each question carries **1** mark. **(4×1=4)**

1. What is the expansion of http?
2. What is LAN?
3. What is a genome?
4. What is drug design?

SECTION - B

Write short notes on any **Seven** of the following. Each question carries **2** marks. **(7×2=14)**

5. What is a programming language?
6. What is an IP Address?
7. Bioinformatics is multidisciplinary. What are the disciplines associated with it?
8. Explain the term "pattern recognition".

P.T.O.

9. Give a brief account on DDBJ.
10. What is a secondary database?
11. What is pair wise alignment?
12. What are alignment algorithms?
13. What is drug bank?
14. What is docking?

SECTION - C

Write notes on any **Four** of the following. Each question carries **3** marks. **(4×3=12)**

15. Differentiate between software and hardware with suitable examples.
16. Give a brief account on data retrieval tools.
17. Discuss on GenBank.
18. Discuss on FASTA.
19. Comment on Cambridge structural database.
20. Give a brief outline on World Wide Web.

SECTION - D

Write an essay an any **Two** of the following. Each question carries **5** marks. **(2×5=10)**

21. What are input output devices? Give a brief note on the various types of operating systems.
22. Discuss on the methods of pattern recognition and prediction.
23. Discuss on sequence analysis with emphasis on multiple sequence alignment.
24. What is homology modeling and discuss on the benefits of it.
