



K20U 1839

Reg. No. :

Name :

**III Semester B.Sc. Degree CBCSS (OBE) – Regular Examination, November 2020
(2019 Admission Only)**

**GENERAL AWARENESS COURSE IN MICROBIOLOGY
3A12MCB : Bioinformatics and Bioinstrumentation**

Time : 3 Hours

Max. Marks : 40

PART – A

Answer **all** the questions. **Each** question carries 1 mark.

(6×1=6)

1. DDBJ.
2. CATH.
3. RCF.
4. Absorption spectra.
5. CDNA.
6. Name 2 database search tools.

PART – B

Answer **any 6** questions. **Each** question carries 2 marks.

(6×2=12)

7. CADD.
8. High throughput sequencing.
9. Pairwise sequence alignment.
10. UV-VISIBLE spectrophotometer.
11. Taq Polymerase.
12. PDB.
13. Paper chromatography.
14. PAM.



PART – C

Answer **any 4** questions. **Each** question carries **3** marks.

(4×3=12)

15. What is the difference between pairwise and multiple alignment of sequences ?
16. Write about specialised secondary protein sequence databases.
17. Narrate principle and application of PCR.
18. What is molecular docking ? Narrate its importance in drug design.
19. Explain different kinds of centrifuges.
20. What is metabolomics ? Narrate its brief application.

PART – D

Answer **any 2** questions. **Each** question carries **5** marks.

(2×5=10)

21. What is Phylogenetic analysis ? Narrate different tools for it.
 22. Explain different steps involve in a novel drug design.
 23. Write the principle, types and applications of Gel electrophoresis.
 24. What is proteomics ? Narrate work flow and applications of it.
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