



Reg. No. :

Name :

Fourth Semester B.Sc. Degree Examination, July 2018
First Degree Programme Under CBCSS
Zoology
Foundation Course
ZO 1421 : GENERAL INFORMATICS AND BIOINFORMATICS
(2014 Admission)

Time : 3 Hours

Max. Marks : 80

Instruction : Draw diagrams only *if* specified in the question.

SECTION – A

Answer **all** questions in a **word** or **one** to **two** sentences. **Each** question carries **one** mark. **(10×1=10 Marks)**

1. What is IPR ?
2. Expand NCBI.
3. Define RasMol.
4. What is gene finding ?
5. What is FTP service ?
6. Name a free open source operating system.
7. Comment on formatting.
8. What is LAN ?
9. Expand OMR.
10. What is SNP ?

P.T.O.



SECTION – B

Answer **any eight** questions. **Each** question carries **two** marks. Answer **not** to exceed **one** paragraph. **(8×2=16 Marks)**

11. Differentiate between RAM and ROM.
12. Distinguish between Phylogram and Cladogram.
13. What is Booting of a computer ?
14. Describe FASTA sequence format.
15. What is Proteomics ?
16. Describe the various input devices.
17. Define information overload.
18. What are digital rights ?
19. Distinguish between Warranty and Guarantee.
20. Differentiate INFLIBNET from NICNET.
21. Define Cyber ethics.
22. Mention any four www browsers used for internet surfing.

SECTION – C

Answer **any six** questions. **Each** question carries **four** marks. Answer **not** to exceed **120** words. **(6×4=24 Marks)**

23. Briefly describe on ORF finding.
24. Describe the various nucleic acid sequence databases in bioinformatics.
25. Briefly describe the various operating systems.
26. Explain the features of BLAST search engines.
27. Distinguish Bioinformatics from Computational biology.



28. Mention the use of GENSNIP as a tool in gene prediction.
29. Write a note on cyber crimes.
30. Give a short note on the protein structure visualization tool.
31. Explain the effect of plagiarism in knowledge management.

SECTION – D

Answer **any two** questions. **Each** question carries **15** marks. Answer as long essay type. **(2×15=30 Marks)**

32. Write an essay on the applications of Bioinformatics.
 33. Explain in detail the different biological databases in bioinformatics and their uses.
 34. Explain the features of a modern personal computer and its peripherals.
 35. Describe in detail the influence of INTERNET in society.
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