MAR IVANIOS COLLEGE (AUTONOMOUS) THIRUVANANTHAPURAM

Reg. No. :....................   Name :.....................

Fourth Semester B.Sc. Degree Examination, June 2016
First Degree Programme under CBCSS
Foundation Course: Zoology – III
AUZO421: General Informatics and Bioinformatics

Time: **3** Hours   Max. Marks: **80**

SECTION – A

*Answer **ALL** questions in one or two sentences.*

1. What is IPR ?
2. What is Cyber terrorism ?
3. What is INFLIBNET ?
4. Define Patent.
5. Define Plagiarism.
6. Brief notes on GIS.
7. What is Telemedicine ?
8. What is Edusat ?
9. Name a protein sequence database.
10. Mention the use of Microarray.

(10 × 1 = 10 Marks)

SECTION – B

*Answer any **EIGHT** questions, each in a short paragraph not exceeding 50 words.*

11. Differentiate between Minicomputers and Microcomputers.
12. Explain RAM and ROM.
13. Explain application software.
14. Explain Computer virus.

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15. What are academic websites ?
16. Write a short note on Phylip.
17. Explain e – journal and education software.
18. What are the objectives of e – governance ?
19. Differentiate between bioinformatics and computational biology.
20. What are the statistical tools in bioinformatics ?
21. Explain artificial intelligence.
22. Differentiate between BLAST and FASTA.

(8 × 2 = 16 Marks)

SECTION – C

*Answer any **SIX** questions, each in a paragraph not exceeding 120 words.*

23. Explain wireless network technology.
24. Discuss Phylogenetic tree.
25. Describe the Evolution of Computers.
26. What are data bases ? Comment on the different types of databases.
27. Explain Human Genome Project.
28. Explain the applications of Bioinformatics.
29. Give the role of IT in Medicine and Healthcare.
30. Explain Social networking sites. And comment its benefits to the society and its disadvantages.
31. Discuss the role of internet as a knowledge repository.

(6 × 4 = 24 Marks)

SECTION – D

*Answer any **TWO** questions, not exceeding four pages.*

32. Explain the applications of Information Technology.
33. Give details about Genomics and proteomics.
34. Discuss the problem of e – waste and green computing.
35. Give a detailed account on Cyber crime and Cyber ethics.

(2 × 15 = 30 Marks)

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