

M 8586



Reg. No. :

Name :

IV Semester B.Sc. Degree (CCSS-Reg./Supple./Imp.) Examination, May 2015
Core Course in Zoology
4B04 ZLG : GENERAL INFORMATICS AND BIOINFORMATICS

Time : 3 Hours

Total Weight : 25

SECTION - A
(General Informatics)

I. Answer **any one** :

(Weight 4)

1) Justify internet as a knowledge repository with special reference to academic networking.

2) Give an account on operating systems and major application softwares. (1×4=4)

II. Answer **any two** :

(Weight 2 each)

3) Explain the special devices and softwares used for the disabled.

4) Comment on Artificial intelligence.

5) Give an account on social and ethical issues of software usages.

6) Discuss on the privacy issues in IT.

(2×2=4)

III. Answer **any two** :

(Weight 1 each)

7) What is MOODLE ?

8) Differentiate between HTML and HTTP.

9) What is an operating system ?

10) What is virtual reality ?

11) What is cyber crime ?

(2×1=2)

IV. Answer the following :

(Weight 1)

12) a) INFLIBNET stands for _____

b) VIRUS stands for _____

c) An example for a system software is _____

d) HTML stands for _____

(W=1)

P.T.O.



SECTION – B
(Bioinformatics)

V. Answer **any one** : (Weight 4)

- 13) Explain secondary databases with special reference to PROSITE and PRINTS.
- 14) Describe various database search engines in bioinformatics. Add a note on their merits. (1×4=4)

VI. Answer **any two** : (Weight 2 each)

- 15) What is Bioinformatics ? Give a short note on its development in recent years.
- 16) Comment on Multiple sequence alignment.
- 17) Give the applications of Proteomics.
- 18) Describe the structure of SWISS-PORT entries. (2×2=4)

VII. Answer **any four** : (Weight 1 each)

- 19) Give any two application of Metabolomics.
- 20) What are Micro arrays ?
- 21) Mention any two ethical issues involved in Bioinformatics.
- 22) What is DNA sequencing ?
- 23) What is Genbank ?
- 24) What are secondary databases ?
- 25) Mention the scope of bioinformatics. (4×1=4)

VIII. Answer the following : (Weight 1 each)

- 26) a) FASTA stands for _____
- b) Give an example for primary database.
- c) _____ is a nucleotide sequence database.
- d) DDBJ stands for _____

27) Match the following :

- | | |
|---------------|---------------------|
| a) SWISS-PROT | Nucleotide database |
| b) KEGG | Protein database |
| c) STAG | Metabolite database |
| d) EMBL | Search Engine |
| | Blocks |

(2×1=2)