Reg. No. : ....

Name : ....

IV Semester B.Sc. Degree (CCSS-Regular/Supple./Improv.) Examination, May 2014
CORE COURSE IN ZOOLOGY
4B04 ZLG : General Informatics and Bioinformatics

Time : 3 Hours   Max. Weightage : 25

SECTION – A
(General Informatics)

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

   1) Give an account on the pros and cons of IT in modern life.

   2) Write an essay on guidelines for the proper use of computers and internet.

                                        (1×4=4)

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

   3) Comment on virtual reality

   4) Comment on free software debate

   5) Give the standard specifications of a modern personal computer.

   6) Account on different antivirus package used in computers.   (2×2=4)

III. Answer **any two** (Weight 1 each) :

   7) What is application software ?

   8) What is INFLIBNET ?

   9) What is antivirus ?

   10) What is an internet browser ?

   11) What is digital library ?   (2×1=2)

IV. Answer the following (Weight 1) :

   12) a) An example for an application software is _____.

       b) _____ is an antivirus package

       c) _____ is an operating system.

       d) DOS stands for _____.   (1×1=1)

SECTION – B

(Bioinformatics)

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

13) Give an account on Micro arrays. Describe the methods involved in it.

14) Comment on the history, development and scope of bioinformatics.   (1×4=4)

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

15) Comment on pair wise sequence alignment.

16) Differentiate between Genomics and Proteomics.

17) Account on Nucleotide sequence databases.

18) Comment on Metabolomics.   (2×2=4)

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

19) What are database search engines ?

20) Mention the scope of bioinformatics

21) What is EMBL ?

22) What are primary databases ?

23) Comment on BLAST.

24) Comment on Genomics

25) Give any two applications of Proteomics.   (4×1=4)

VIII. Answer the following : (Weight 1 each)

26) a) Block is a _____ database.

    b) NCBI stands for _____.

    c) _____ is an example for metabolite database.

    d) Genbank is a _____.

27) Match the following :

    a) Prosite   Search Engine

    b) EcoCyte   Secondary database

    c) BLAST   Metabolite database

    d) NCBI   Sequence similarity search

                        MIPS   (2×1=2)

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