Exam. Code : 206601 Subject Code : 3639

M.Sc. Bio-Informatics 1st Semester COMPUTER FUNDAMENTALS, NETWORKING, WEB TECHNOLOGY AND BASICS OF C PROGRAMMING LANGUAGE

Paper-BI-514

Time Allowed—Three Hours] [Maximum Marks—75
Note :— This question paper consists of FOUR sections consisting of EIGHT questions. Candidates are required to attempt FIVE questions, selecting at least ONE question from each section. The fifth question may be attempted from any section. Each question carries 15 marks.

SECTION-A

- (a) What do you understand by storage devices in a computer system ? Also explain the memory hierarchy of these devices. What do you mean by ROM, RAM and DRAM ?
- (b) Draw the truth table, logical expression and symbol of NAND, NOR and XOR gates. 6
 - (c) What do you mean by computer virus ? How can we prevent our computer from attack of computer viruses ?
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- (a) Explain in detail OSI reference model for networking of computer system.
 - (b) Write down various services available on the Internet.
 - (c) Write a note on hardware components required for networking of computer system. 3

SECTION—B

- (a) Briefly explain various features of HTML language. Also give various formatting tags available in HTML.
 - (b) How can we create hyperlinks in HTML document ?What do you mean by external and internal document referencing ?
 - (c) Briefly explain various list tags available in HTML.

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- 4. (a) What do you understand by Dynamic HTML ? Explain in detail various features of DHTML.
 - (b) How can we insert frames in HTML document ?
 Explain various tags associated with frames in HTML along with their attributes.
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(c) Briefly explain structure of HTML document.

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SECTION-C

- (a) What do you understand by Programming Languages ? Explain various types of programming languages. 5
 - (b) Explain various steps of compiling, linking, testing and debugging a program in C language. 5
 - (c) Describe various symbols used for creating a flowchart.
- 6. (a) Give a brief introduction to C language. Also explain advantages of programming in C language over other languages.
 - (b) Explain the difference between constants and variables. What do you understand by keyword ? Give five examples of keywords and their meaning in C language. 5
 - (c) Briefly explain various integer and float data types available in C language. Also give their memory requirement and range.

SECTION-D

- (a) Briefly explain various Arithmetical, Relational and Logical operators in C language.
 - (b) Explain various conditional statements available in C language by giving suitable examples. 6
 - (c) Define array. Explain various types of arrays in C language.3

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- 8. (a) Explain the concept of Modular Programming. What are the advantages of modular programming ?
 - (b) What do you understand by library functions ? How can we define our own functions in C language ? Explain by giving suitable example.
 - (c) What do you understand by pointer variable ?What are the advantages of pointer variable ?How can we access data through pointer variable ? Explain by giving suitable example.

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