

Roll No.

Total Pages : 3

BT-1/D-17

31013

**FUNDAMENTALS OF COMPUTER
AND PROGRAMMING IN C
Paper-CSE-101 E**

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt *five* questions in all by selecting at least *one* question from each unit. All questions carry equal marks.

UNIT-I

- 1. (i) What is an operating system ? What is its need ? What are the types of an operating system ? Explain the following operating system :
 - (a) UNIX/Linux.
 - (b) Window operating system. 10
- (ii) What is difference between Primary and Secondary memory ? What are auxiliary storage devices ? Explain them in brief. 10

- 2. (i) Differentiate impact and non-impact printers. 5
- (ii) Perform the following conversions :
 - (a) $(98765)_{10} = (?)_{16}$
 - (b) $(5674)_8 = (?)_{10}$
 - (c) $(100100101110)_2 = (?)_{16}$
 - (d) $(89CD)_{16} = (?)_2$
 - (e) $(987654)_{10} = (?)_8$
 - (f) $(A1E2)_{16} = (?)_{10}$ (6×2.5=15)

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UNIT-II

- 3. (i) Differentiate the following :
 - (a) Linker, Loader and Debugger.
 - (b) Assembler, Compiler and Interpreter. (2×5=10)
- (ii) Differentiate algorithm and flow-charts. What symbols are used in flow-charts. Draw a flow-chart to find area of circle. 10

- 4. (i) What are the advantages and limitations of using machine language, assembly language and high level languages. 10
- (ii) What is internet ? How it works. What are the major features and applications of using internet. 10

UNIT-III

- 5. (i) Explain the structure of a program in C-Language by giving a suitable example. 10
- (ii) What do you understand by identifiers and keywords. How keywords differ from reserved words ? 5
- (iii) Explain the operator precedence chart with example. 5

- 6. (i) Compare the use of if-else statement with that of ternary operator. 5
- (ii) Explain the usefulness of default statement in switch case statement with example. 5
- (iii) Differentiate local and global variables. Write a program using switch case statement to display a menu that offers five options: read three numbers, calculate total, calculate average, display the smallest number and display the largest number. 10

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UNIT-IV

7. (i) What is a string ? How to declare a string ? How it differ from character array. Write a program to copy n characters of a string from the m th position in another string. 10
- (ii) Explain how strings are represented in main memory ? How are strings read from the standard input device ? Explain the different functions used to perform string input operations. Give example. 10
8. (i) Differentiate structure and union. Explain the utility of typed keyword in structures. Write a program to find smallest number an array by using structure. 10
- (ii) Differentiate a text file and a binary file. Explain the different modes in which a file can be opened in C program. Explain the following with example :
- (a) fopen()
(b) ferror()
(c) fclose(). 10

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