

Roll No.

8113

Printed Pages : 3

BT-I / D-14**FUNDAMENTAL OF COMPUTER AND
PROGRAMMING IN C****Paper-CSE 101 E***Time allowed : 3 hours]**[Maximum marks : 100**Note : Attempt five questions in all, selecting at least one
question from each unit. All questions carry equal marks.***Unit-I**

1. (a) Write short notes on :
 - (i) Memory of a computer
 - (ii) Secondary storage devices. 10
- (b) Discuss the architecture of UNIX operation system by drawing suitable diagram. Explain the following UNIX commands : CHMOD, SU, KILL, LS, and CAT. 10
2. (a) What is an operating system ? Explain the functions performed by an operating system. 11
- (b) Solve the following (with r' complement) :
 - (i) $(123)_8 - (434)_8$
 - (ii) $(BCAF)_{16} - (8932)_{16}$
 - (iii) $(112)_3 - (120)_3$ 9

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(2)

Unit-II

3. (a) What is the function of a Loader and a linker ? How they are different from each other ? 8
- (b) What is the significance of using a flow chart ? Draw the flow chart for sorting of an array. 12
4. (a) What is the difference between an algorithm and pseudocode ? Also write an Algorithm and pseudocode for solving a quadratic equation. 10
- (b) Explain the following :
WWW, URL, Internet Service Provider, and Web Browser. 10

Unit-III

5. (a) Write a C Program to find Exponent Power Series. 8
- (b) Discuss with examples the various I/O statements in C. 6
- (c) Discuss with examples the various control statements available in C. 6
6. (a) "C is often called as middle level language" - comment. 8
- (b) What is recursion ? Write a recursive function for finding the Fibonacci series. 12

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Unit-IV

7. (a) What are strings ? How are strings handled in C ? Also write a program to concatenate two strings without using string functions. 12
- (b) Explain structure within structure with suitable example. 8
8. (a) What is the difference between structure and union ? Declare a structure "empl" having employee name, age and salary as data member. Using this structure write a program in C to input data of 5 employees and find out the average age of employees whose salary is below ten thousand. 10
- (b) What is the process of declaring a file ? What are the different modes in which a file can be opened ? Write a program in C to copy the content of one file into another file. 10