

Roll No.

Total Pages : 03

BT-2/M-18

32013

FUNDAMENTAL OF COMPUTER AND PROGRAMMING IN C CSE101E

Time : Three 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) Discuss the classifications of the computer systems. 10
(b) Explain the secondary memory in details. 10
2. (a) Differentiate between Unix and Windows Operating System. Why operating system is important for computer system ? 10
(b) Solve the following : 10
(i) (AC2F)16 - (5BD)16 using (r-1) complement
(ii) (7653)8 = (?)16

Unit II

- 3. (a) What is Algorithm ? Write an algorithm to search an element from an array. 10
(b) Write notes on the following :
(i) Debugger (ii) Interpreter
(ii) Linker (iv) Assembler. 10
4. (a) Differentiate between : 10
(i) Internet and Intranet
(ii) http and ftp
(iii) Star and tree topology.
(b) What do you understand by flowchart ? Draw flowchart for sorting of array. 10

Unit III

- 5. (a) Define the storages classes in C with example. 10
(b) What is recursion ? Write a program to find the Fibonacci series using recursion.
6. (a) How array can be passed to a function ? Explain with suitable example. 10
(b) Explain the use of break, continue and goto statement in C with suitable examples. 10

Unit IV

7. (a) Explain the use of structure within structure with suitable example. 10
(b) Write a program to handle a file in C language. 10
8. (a) Explain the following with syntax : 10
(i) fread (ii) fwrite
(iii) fgetc (iv) fopen
(v) fputs.
(b) Write a program to concatenate two strings without using string functions. 10