

24006

B.Tech. 2nd Semester Examination, May-2016
FUNDAMENTALS OF COMPUTER PROG. IN 'C'

Paper-CSE-101-F

Common for all branches

Time allowed : 3 hours [Maximum marks : 100]

Note : Attempt five questions in total. Question No. 1 is compulsory. Attempt one question from each section A, B, C and D.

1. Define the following terms :

- (a) Microprocessor
- (b) Input devices
- (c) Timesharing Operating System
- (d) Translators
- (e) Network devices
- (f) DNS
- (g) HTTP
- (h) Arrays
- (i) Union
- (j) Realloc.

2×10=20

Section-A

2. (a) What is a computer system ? Explain various components of computer in detail. 10
- (b) Explain the structure of UNIX operating system. 10
3. (a) Briefly discuss generations of Microprocessor. 10

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- (b) What are the functions of an operating system ? 10

Section-B

4. (a) Differentiate between low level language and high level language. 10
- (b) Differentiate between Compiler and Interpreter. 10
5. (a) Explain OSI Model in detail. 10
- (b) What is Internet ? Explain its benefits and drawbacks. 10

Section-C

6. What are User defined functions ? Explain call by value and call by reference methods in detail. 20
7. (a) Write a program to swap two numbers using function. 10
- (b) Explain structure, array of structure, structure with structure with suitable examples. 10

Section-D

8. (a) What are Pointers ? What are the disadvantages of pointer variables ? 10
- (b) Using pointer write a program to find desired element in an array of N elements. 10
9. (a) Explain Malloc, Calloc, free, New, Realloc. 10
- (b) Write a program to copy contents of one file to another file. 10

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