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. $2 \times 10 = 20$

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