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B.TECH. THEORY EXAMINATION (SEM-II) 2016-17 COMPUTER PROGRAMMING

Time : 3 Hours

Note: Be precise in your answer. In case of numerical problem assume data wherever not provided.

SECTION – A

1. Explain the following:

What is meant by storage classes of a variable? (a)

Roll No.

- Why we use do-while loop in c? (b)
- (c) Define the concept of top down development and stepwise refinement process.
- What is meaning of continue and break keyword in c? (d)
- What is recursion? (e)
- Explain the difference between function declaration and definition of a function. (f)
- (g) Explain flow chart and the symbols used.
- Write an algorithm to find the greatest number among three numbers. (h)
- Explain call by value with suitable example. (i)
- What do you mean by Macro? (i)

SECTION - B

2. Attempt any five of the following questions:

- Explain differences between a flow chart and algorithm with an example. (a)
- What is a pointer? Write a C program to swap the values of two variables making the (b) use of pointers.
- Distinguish between actual arguments and formal arguments with the help of example. (c)
- Write a program in C to print the number of days using switch statement. (d)
- Write a program to print all the diagonal elements of the Matrix. (e)
- (f) What is recursion? Write a program to print the Fibonacci series using recursion.
- Write a program to generate the following pattern (g)
- Write a program to rearrange a list of names in ascending order. (h)

SECTION - C

Attempt any two of the following questions:

- 3 What are the different file opening modes in C. Suppose a file contains student's records with each record containing name and age of a student. Write a C program to read these records and display them in sorted order by name.
- 4 Write short notes on: i) Dynamic Memory allocation in C , ii) Command Line arguments
 - Write macro definition with arguments for calculation of simple interest and (i) amount.
 - Write a C program to add first seven terms of the following series using for loop. 1/1! (ii) +2/2! +3/3! +



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 $10 \ge 2 = 20$



Max. Marks : 100

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 $2 \ge 15 = 30$