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UNIT-I

What is Flow chart? What are the different symbols used in it? Draw a flow chart to perform bubble sort. 14

What is Structured programming? What are the advantages of structured programming? Explain,

14

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UNIT-II

What do you understand by Hierarchy of operators? Draw a table illustrating the hierarchy of operators in C language. 14

What is the difference between bubble sort and selection sort? Write a program in C to perform selection sort.

UNIT-III

(a) What is the difference between break and continue statement? Write a program to generate prime numbers upto 200 excluding those which are lying between 30 and 50.

Discuss following storage classes in terms of life, scope and the initial value using suitable examples :

Automatic storage class

Static storage class

(iii) Register storage class

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Total Pages: 3 Roll No.

MCA(8-9)/D-14

10366

COMPUTER FUNDAMENTALS AND PROBLEM SOLVING USING C

Paper-MCA-101

Time Allowed: 3 Hours]

[Maximum Marks: 80

Note: Attempt five questions in all, selecting at least one question from each Unit. Q. No. 1 is compulsory.

Compulsory Question

- (a) What is the difference between signed and unsigned character?
 - (b) What is the difference between keywords and reserve words?
 - (c) What are the different types of errors?
 - (d) Discuss the stropy() library function.
 - (e) What is associativity? What are the operators having right to left associativity?
 - How do you initialize an array?
 - When is it essential to write the prototype of a function in C?
 - (h) What is the difference between int and long int? $8 \times 3 = 24$

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7. What is the difference between for loop and while loop? Write a program to count the number of vowels and consonants in a string.
14

UNIT-IV

- (a) What is an Array? What is the difference between one-dimensional and two-dimensional array? Discuss.
 - (b) Write a program to compute the trace of a matrix using function.
- (a) What do you understand by pointers? Write a function in C to swap the /alue of two integer variables.
 - (b) What is Life? Write a function in C to count the number of characters in a file.

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