PSCMTH20C - C Programming

P. Pages : 2

Time : Three Hours

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GUG/S/23/13778

Max. Marks : 100

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Notes :
1. Solve all **five** questions.
2. All questions carry equal marks.

UNIT – I

1. a) Write a note on rules for construction of variable names in C programming. **10**

b) Temperature of a city in Fahrenheit degrees is input through the keyboard. Write a program to convert this temperature into centigrade degrees. **10**

OR

c) Write a note on else-if clause in C programming. Write an appropriate program using else-if clause. **10**

d) Write a program to find the greatest of three numbers entered through the keyboard using conditional operators. **10**

UNIT – II

2. a) Discuss the concept of while loop in C programming. **10**

b) Write a program to add first seven terms of the following series using a for loop. **10**
$$\frac{1}{1!}+\frac{2}{2!}+\frac{3}{3!}+----$$

OR

c) Write a program to print all the ASCII values and their equivalent character using a while loop. The ASCII values vary from 0 to 255. **10**

d) Discuss the switch control statement in C programming. **10**

UNIT – III

3. a) Write down a note on function in C programming. **10**

b) What is Recursion? Explain it. **10**

OR

c) Write a function power (a,b) to calculate the value of a raised to b. **10**

d) Write down a note on storage classes in C-programming. **10**

UNIT – IV

4. a) Write a program to copy the contents of one array into another in the reverse order   **10**

    b) Write a note on string.   **10**

OR

    c) What are the various features of structures in C?   **10**

    d) Write a program to multiply any two 3x3 matrices.   **10**

5. a) Write a short note on C keywords.   **5**

    b) What would be the output of the following programs: **5**

      i)   main( )

```
{
    int i = 0;
     for (; i ;)
    printf ("\n Here is some mail for you");
}
```

      ii)   main( )

```
{
    int i;
    for (i = 1; i < = 5; printf ("\n % d", i));
    i + + ;
}
```

    c) Write a short note on signed and unsigned chars.   **5**

    d) Answer the following: **5**

      i)   "A" is a --------- while 'A' is a ----------.

      ii)   A string is terminated by ------------ character, which is written as -------------.

      iii)   Which is more appropriate for reading in a multi – word string?

         gets ( )   printf ( )   scanf ( )   puts ( )

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