Computer Programming Paper - IV

P. Pages : 2

Time : Three Hours

TKN/KS/16/7349

Max. Marks : 80

|||*1096*|||

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Notes :
1. All questions carry marks as indicated.
2. Solve Question 1 OR Questions No. 2.
3. Solve Question 3 OR Questions No. 4.
4. Solve Question 5 OR Questions No. 6.
5. Solve Question 7 OR Questions No. 8.
6. Solve Question 9 OR Questions No. 10.
7. Solve Question 11 OR Questions No. 12.
8. Due credit will be given to neatness and adequate dimensions.
9. Assume suitable data whenever necessary.
10. Illustrate your answers whenever necessary with the help of neat sketches.
11. Use of non programmable calculator is permitted.

1. a) Explain the following statements, with example. **8**
   i) switch   ii) for
   iii) while   iv) do-while.

    b) What is conditional operators? Write a program to find greatest among three numbers using conditional operator. **6**

OR

2. a) Explain various storage classes in C. Give example for each. **7**

    b) Write a program to check whether the entered number in prime or not, assuming that number is > 0. **7**

3. a) Explain the following with suitable example. **5**
   i) function prototype.
   ii) Function delinition.
   iii) Function call.

    b) Explain the following with suitable examples. **8**
   i) Call by valve function.   ii) Call by reference function.

OR

4. a) Write a program to calculate average of marks of n subjects using pointers. **7**

    b) Write a function to find the sum of n terms of Fibonacci series. **6**
   The Fibonacci series in 112358 -----

5. a) What is the need of array? Explain the storage of elements (integers) of 1-D array and 2-D array in memory. Give example. **7**

    b) Write a program to find largest element away of n integer elements. **6**

OR

6. a) Explain any three string related library function in C, with examples. **6**

b) Write a program to multiply two matrices, with diversion 3x3. **7**

7. a) Write a program using structures to process information of 50 student with their Roll no, name, marks of 3 subject and average marks **10**

b) Explain the difference between struct and union with example. **3**

OR

8. a) Explain the following with examples. **6**
   i) Enumerations
   ii) Type del
   iii) Bit fields

b) Write a program to display the information of 10 books and display it. The information is book name, author name, ISBN No and cast. **7**

9. a) Write a program to copy the contents of one file to another file. Assume suitable file names. **8**

b) Explain the use of fscanf ( ), fprintf ( ), gets ( ) and puts ( ), with syntax. **6**

OR

10. a) Write a program to count number of characters and number of words in a file. **8**

b) Explain the following functions **6**
   i) fseele ( )
   ii) fread ( )
   iii) fwrite ( )

11. a) Explain various types of pointers. **6**

b) Explain the concept of elementary TSRS. **7**

OR

12. a) Explain interrupt vector table and ISR. **6**

b) Explain the use of Rom BIOS and Rom BIOS function fin DOS. **7**

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