

Computer Programming

P. Pages : 2

Time : Three Hours



NKT/KS/17/7261

Max. Marks : 80

- 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. Use of non programmable calculator is permitted.

1. a) Write a program to check whether a character is vowel or consonant, using switch case structure. **5**
- b) Explain the following statements, by giving example. **5**
- i) For loop
 - ii) While loop
- c) What are conditional operators? Give example. **3**

OR

2. a) Write a program to check whether the entered number (> 0) is prime or not. **6**
- b) Explain various storage classes in C by giving examples. **7**
3. a) Write a program to swap two integer values of two variables by using call by reference function. **6**
- b) What do you mean by function prototype? Give example. **4**
- c) Explain dynamic memory allocation. **4**

OR

4. a) Write a 'C' program to generate Fibonacci series using recursion method. **7**
- b) Write a program to find largest of 10 integers using pointers. **7**
5. a) Explain the memory map of one dimensional and two dimensional array by giving example. **6**
- b) Write a program to multiply two matrices. Assume suitable dimensions. **7**

OR

6. a) Write a program to find length of the string without using 'strlen' library function. 7
b) List the various in built (library) string handling functions. Give examples. 6
7. a) Explain the differences between struct and union. 3
b) Write a program to process the following data of 50 students by using structures. 10
Name, Roll No. marks of 3 subjects and Total marks.

OR

8. a) Explain enumerated data type in C by giving example. 7
b) Explain the following. 6
i) Structure within structure.
ii) Array of structures.
9. a) Write a program to count number of characters and number of words in a file. 8
b) Explain the use of fscanf(), fprintf(), gets() and puts(), with syntax. 6

OR

10. a) Explain the following functions. 6
i) fseek ()
ii) fread ()
iii) fwrite ()
b) Write a program to copy the content of one file into another file. 8
11. a) Explain the concept of elementary TSRs. 7
b) Explain various types of pointers in 'C'. 6

OR

12. a) Explain the use of ROM BIOS and ROM BIOS functions in DOS. 7
b) Explain the concept of interrupt service routine (ISR) 6
