

Computer Programming Paper- V

P. Pages : 2

Time : Three Hours



KNT/KW/16/7282/7309

Max. Marks : 80

- Notes :
1. Same answer book must be used for each section.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.
 4. Illustrate your answers wherever necessary with the help of neat sketches.
 5. Use of slide rule, Logarithmic tables, non programmable calculator drawing instruments, Thermodynamic tables for moist air, Psychrometric charts and Refrigeration charts is permitted.
 6. All questions are compulsory.

1. a) Describe various data types available in C. **7**
b) Write a program in C to add the digits of a four digit number. Number is entered by user. **7**

OR

2. a) Write a program to determine and print the sum of the following harmonic series for a given value of n: **7**
 $1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n}$. The value of 'n' is to be entered through keyboard.
b) Explain the storage classes in C with example. **7**
3. a) What do you understand by an array? How arrays can be initialized in a program? **6**
b) What are the different methods of searching? Explain any one in brief. **7**

OR

4. a) Explain how single dimensional arrays can be sorted by using bubble sort method with an example. **6**
b) Write a C program for finding sum of two 3 x 3 matrices. Resultant matrix must be printed as output by the program. **7**
5. a) Write a program in C to print details of 10 books using array of structure and structure should contain name, price and pages. **6**
b) Write a short notes on.
i) Nested structures. **2**
ii) Pointers in 'C' **2**
iii) Pointer as a function argument. **3**

OR

6. a) Explain the following file functions and give their syntax. **6**
i) fopen () ii) fseek () iii) fclose ()

