

Duration: 2 ½ Hrs.

Total Marks: 75

- Note: i. All questions are compulsory.
ii. Figures on right indicate maximum marks.

Q. 1 Answer the following

- a Write an algorithm for exchange the value of two variables with and without temporary variables. 8

OR

- a List different types of data types in 'C'? What are short and long Qualifiers? 8
b Explain the structure of 'C' program. 7

OR

- b What is an algorithm? Why analysis of algorithm is required? 7
c Write the rules for constructing the variable name. 5

OR

- c Write a program in C to check whether the entered number is odd or even? 5

Q. 2 Answer the following

- a State and explain different types of operators used in 'C' programming? 8

OR

- a Explain different formatted Input / Output functions in 'C'. 8
b With an example, explain if statement, else... if statement, switch statement? 7

OR

- b With an example, explain for loop, while loop and do while loop? 7
c Explain implicit and Explicit type conversion? 5

OR

- c State and explain break and continue statements with suitable example? 5

Q. 3 Answer the following

- a Write a 'C' program that allows user to enter 10 numbers and find there average and sum using Array. 8

OR

- a Discuss various string functions. 8
b With an example, explain the difference between Structure and Unions? 7

OR

- b With an example, differentiate between array and structures. 7
c Explain registered and static variable. 5

OR

- c Write a 'C' program to accept any character from the user and inform him whether it is in UPPER CASE or LOWER CASE. 5

Q. 4 Attempt any three of the following

15

- a Explain the keywords and identifiers in 'C'.
b Write an algorithm to find the average of numbers.
c Explain the bitwise operators in 'C'.
d With an explain break... continue statement in 'C'
e What is Array? How to declare and initialize 2D imentional array?
f With an example, explain Nested Structure?