1 (a) Do as directed 4
(1) What is algorithm?
(2) What is flowchart?
(3) A comment can be inserted in the middle of a statement. (T/F)
(4) The keyword _____ can be used to create a data type identifier.

(b) Attempt the following: (any two) 10
(1) Explain machine level and high level programming language.
(2) What is variable? How does it differ from constant? What are naming rules for it?
(3) Explain data types in 'C' language.

2 (a) Do as directed 2
(1) Distinguish getchar and scanf function.
(2) To print the data left-justified, we must use ______ in the field specification.

(b) Attempt the following 08
(1) What is operator? Explain logical operators.
(2) Explain increment and decrement operators with example.
(3) Explain printf() and scanf() function with suitable example.
3 (a) Do as directed
   (1) Define: Continue statement
   (2) Differentiate: Entry control and Exit Control loop
   (3) _______ is the process of arranging the elements of an array in order.
   (4) The function `strcmp` ("abc","ABC"); returns a positive number.(T/F).
(b) Attempt the following (Any two) 10
   (1) Explain else if ladder statement with example.
   (2) What is array? Explain one dimensional array with example.
   (3) Describe string handling functions.

4 (a) Do as directed 03
   (1) What is actual and formal arguments ?
   (2) _______refers to the region where a variable is actually available for use.
   (3) Distinguish: Structure and union.
(b) Attempt the following (Any three) 15
   (1) What is recursion? Explain with example.
   (2) Write a program to check a given number is prime or not using function.
   (3) Write short note on storage classes of 'C' variable.
   (4) Explain array within structure with example.

5 (a) Do as directed 04
   (1) The _______ operator returns the value of the variable to which its operand points
   (2) An integer can be added to a pointer.
   (3) All files should be declared as type _______ before they are used.
   (4) The _______ mode is used for opening a file updating.
(b) Attempt the following : (any two)  10

(1) What is pointer? Explain pointer as argument with example.

(2) Explain command line argument with example.

(3) What is preprocessor? Explain preprocessor directives.