Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

1   (A)   Attempt following :   **4**

   (1)   Who developed C language?

   (2)   How many tokens are available in c?

   (3)   What is algorithm?

   (4)   List out relational operator.

   (B)   Attempt any **one** :   **2**

   (1)   Explain increment operator

   (2)   Explain keywords.

   (C)   Attempt any **one** :   **3**

   (1)   Draw symbols of flow chart.

   (2)   What is typecasting?

   (D)   Attempt any **one** :   **5**

   (1)   Explain variable in detail.

   (2)   Explain history of C.

2 (A) Attempt following :   **4**

    (1) What is entry control loop?

    (2) List out condition statements

    (3) What is nested loop?

    (4) Which keywords are used with switch case?

   (B) Attempt any **one** :   **2**

    (1) Write down algorithm to check whether a number is odd or even

    (2) Explain simple if.

   (C) Attempt any **one** :   **3**

    (1) Explain break statement

    (2) Write a program to check whether a number is prime or not

   (D) Attempt any **one** :   **5**

    (1) Explain while loop with example

    (2) Explain switch case with example

3 (A) Attempt following :   **4**

    (1) Which header file is used with string functions?

    (2) Explain printf().

    (3) Explain pow()

    (4) Explain atof()

   (B) Attempt any **one** :   **2**

    (1) Explain with islower() and tolower()

    (2) Which storage class is default storage class? Explain in detail.

(C) Attempt any **one** : 3

    (1) Write a program to check entered character is alphabet, digit or special character

    (2) Explain recursion.

(D) Attempt any **one** : 5

    (1) Explain call by value and call by reference

    (2) What is dynamic memory allocation? Explain memory allocation functions.

4 (A) Attempt following : 4

    (1) What is array?

    (2) What is string?

    (3) Write down syntax to declare structure.

    (4) How to declare two dimensional array.

(B) Attempt any **one** : 2

    (1) Explain single dimensional array

    (2) How to initialize character array

(C) Attempt any **one** : 3

    (1) Explain array of structure

    (2) Explain passing structure to udf

(D) Attempt any **one** : 5

    (1) What is array? Explain two dimensional array with example

    (2) Difference between structure and union.

5   (A)   Attempt following :   **4**

             (1)   Which function is used to get file pointer position?

             (2)   Which function is used to open file?

             (3)   Explain fprintf()

             (4)   What is pointer?

       (B)   Attempt any **one** :   **2**

             (1)   Explain' file modes in file handling

             (2)   What is a sequential access file?

       (C)   Attempt any **one** :   **3**

             (1)   Explain pointer to pointer.

             (2)   Explain putw() and getw()

       (D)   Attempt any **one** :   **5**

             (1)   Explain pointer to structure with example

             (2)   Explain random access file.

_____