

22374

22223

3 Hours / 70 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Figures to the right indicate full marks.
(4) Assume suitable data, if necessary.
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following: 10

- a) List different symbols of flowcharts with label.
- b) State use of string with example.
- c) State file inclusive directives.
- d) Write the syntax of Do-while loop.
- e) Define array. List its types.
- f) List features of preprocessor.
- g) Find the output of following program

```
# include <stdio.h>

Void main ( )
{
int x = 5, y = 5, v1, v2 ;
v1 = x++ ;
v2 = ++y ;
printf ("Value of v1 : %d", v1);
printf ("Value of v2 : %d", v2);
}
```

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) State use of increment and decrement operators. Also give difference between `i++` & `++i` with example.
 - b) Describe for loop & nested of loops.
 - c) Explain one dimensional array. Also explain how to declare & initialize one dimensional array with example.
 - d) Write a program to declare structure result having seat no., name & marks. Accept & display data of five students.
- 3. Attempt any THREE of the following:** **12**
- a) Write a program to print reverse of entered string using pointer.
 - b) Describe macro with arguments.
 - c) Write a program to sum all the even numbers between 1 to 20.
 - d) Explain switch statements with program.
 - e) Define function & describe methods of function calling in brief.
- 4. Attempt any THREE of the following:** **12**
- a) Write a program using structure to read & display information of students.
 - b) Write a program to accept a string & display the length of it.
 - c) Write a program to swap two numbers by call by value method.
 - d) Explain logical operators.
 - e) Illustrate the use of break & continue statement with example.

5. Attempt any TWO of the following:**12**

- a) Write a program using switch statement to check whether entered character is VOWEL or CONSONANT.
- b) Write a program for subtraction of two 3×3 matrices.
- c) i) Write output of program

```
# include <stdio.h>
Void main ( )
{ Struct book
  {
    int pages ;
    char name [10];
  } a ;
  a.pages = 10;
  strcpy (a.name, "c basics");
  printf ("%s = %d", a.pages);
}
```

- ii) Describe structure variable in detail.

6. Attempt any TWO of the following:**12**

a) Write output of following program

i) Write syntax for while, do-while & for loop.

ii) # include <stdio.h>

void main ()

{

int K;

for (K = 1; K <= 5; K++);

{

printf ("%d", K);

}

}

b) Write a program to accept ten numbers in array. Sort array element & display.

c) Write a program to accept two numbers from user & perform addition & subtraction operations using pointer.
