Seat No.

केंद्रक - 045

COMPUTER SCIENCE PAPER - II (NEW) (12246) UG-CS-122
C Programming - II

P. Pages : 3

Time : Two Hours

Max. Marks : 40

Instructions to Candidates :
1.   Do not write anything on question paper except Seat No.
2.   Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3.   Students should note, no supplement will be provided.
4.   All questions are compulsory.
5.   Figures to the right indicate full marks.

1.   Attempt **any eight**.   8

i)   How to Open and Close files in C ?

ii)   State the purpose of following function :

```
int swap (int *x, int *y)
{
  int temp;
  temp = *x;
  *x = *y;
  *y = temp;
}
```

iii)   "Pointer variable holds address of another variable." Comment.

iv)   Write syntax of graphics function line ( ).

v)   What is use of union in C ?

vi)   What is purpose of feof ( ) ?

vii)   Allocate the memory to a float variable four times the size of float.

viii)   What do you mean by pointer to structure ?

ix)   State the use of setcolor ( ) function.

x)   Why storage classes are necessary in C ?

2.   Attempt **any four.**   8

    a)   When 'typedef' facility is useful in C ?

    b)   Explain : i) argc   ii) *argv [ ]

    c)   By default a function returns a value of type.
          i) char,   ii) float,   iii) int,   iv) double.

    d)   Find output :

```
main ( )
{
    int x, y;
    int * P1;
    x = 5;
    P1 = & x;
    y = *P1/ 2 + 10;
    printf ("x =%d, y=%d", x, y);
}
```

    e)   Write a program code that draws a circle at a point (100, 200) with radius 50.

    f)   What do you mean by pointer to Function ?

3.   Attempt **any two.**   8

    a)   Write a recursive function that returns n terms of fibbonaci series.

    b)   Write a short note on nested structure.

    c)   Describe syntax and purpose of following :
          i)   fprintf( )   ii) fputc( )

4.   a)   Attempt **any two.**   6

       i)   Describe in brief concept of pointer to pointer with an example.

       ii)   State syntax and purpose of following :
           i)   arc ( )   ii) outtextxy ( )

       iii) What are uses of array of structure ? Explain with an example.

   b)   What is EOF ? What value does usually it have ?   2

5. Attempt **any one** : 8

a) i) Write a C-language program using structure to define employee record containing employee number, name and salary. Enter atleast 5 records.

ii) Write a C-language program to draw star symbol at center of your screen.

OR

b) i) Illustrate the concept of pointers and arrays with an example.

ii) Explain following string functions :
i) strlen ( )   ii) strcpy ( ).

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