C

Question Paper Code: 99278

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

Open Elective

Civil Engineering

19UCS978- Introduction to C Programming

(Common to ECE, EEE, MECH,IT, Chemical, AGRI, BME, CSBS & Biotechnology
Engineering branches)

(Regulations 2019)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. For 16 bit compiler allowable range for integer constant is   CO1- U

    (a) -3.4e38 to 3.4e38   (b) -32767 to 32768   (c) -32668 to 32667   (d) -32768 to 32767

2.   What is the value of x in this C code?   CO1- App

```
#include <stdio.h>
void main()
{
    int x = 5 * 9 / 3 + 9;
  print("%d",x);}
```
    (a) 3.75   (b) Depends on compiler   (c)24   (d) Error

3. How many integer values can the array N[5][5] store?   CO1- U

    (a) 10   (b) 25   (c) 16   (d) 24

4. A C structure or User defined data type is also called   CO2- App

    (a) Derived data type   (b) Secondary data type

    (c) Aggregate data type   (d) All the above

5. Which of the following status –enquier functions is used to detect I/O errors   CO1- U
    during file handling?

    (a) feof()   (b) error()   (c) ferror()   (d) None of these

PART – B (5 x 3= 15 Marks)

6. Write an algorithm to find the ODD or EVEN of the given number   CO1- U

7. What is the difference between while and do-while statement   CO1- U

8. What is meant by recursion?   CO1- U

9. How to pass a pointer to the function?   CO1- U

10. Define file? What are basic operations of file?   CO1- U

PART – C (5 x 16= 80Marks)

11. (a) Draw and explain the basic organization of the computer.   CO1- U   (16)

       Or

    (b) Explain in detail about the classification and generation of computers   CO1- U   (16)

12. (a) Explain in detail about Constants with examples.   CO1- U   (16)

       Or

    (b) Describe the different forms of if statement in C .Write a C Program using if then else ladder condition.   CO1- U   (16)

13. (a) What is two dimensional array and how to declare and initialize a two dimensional array in C? Write a program for Addition of 2 matrices.   CO3-App   (16)

       Or

    (b) Write a C program to input an array of 10 integers and find the maximum and minimum number in the array. Also, Calculate the average of all values in the array.   CO3- App   (16)

14. (a) Explain in detail about structure with example   CO1- U   (16)

       Or

    (b) Define Union? Write a program for student mark analysis system.   CO1- U   (16)

15. (a) Explain detail about Dynamic memory allocation with suitable example   CO1- U   (16)

       Or

    (b) Explain detail about command line arguments in C.   CO1- U   (16)

99278