C		Reg. No. :							
		<b>Question Pape</b>	r Code: 99278	]					
	B.E./B.Tech. DEGREE EXAMINATION, MAY 2024								
	Open Elective								
	Civil Engineering								
	19UCS978- Introduction to C Programming								
(Common to ECE, EEE, MECH,IT, Chemical, AGRI, BME, CSBS & Biotechnology Engineering branches)									
		(Regulatio	ns 2019)						
Dur	ration: Three hours			Maximum: 100 Marks					
		Answer ALL	Questions						
		PART A - (5 x	1 = 5 Marks)						
1.	For 16 bit compiler allo	CO1- U							
	(a) -3.4e38 to 3.4e38	(b) -32767 to 32768	(c) -32668 to 3266	7 (d) -32768 to 32767					
2.	What is the value of x in this C code?			CO1- App					
	#include <stdio.h *="" 9="" int="" main()="" print("%d",x);}<="" td="" void="" x="5" {=""><td></td><td></td><td></td></stdio.h>								
	(a) 3.75 (b) I	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		o 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

(b) error()

(c) ferror()

during file handling?

(a) feof()

CO1- U

(d) None of these

## PART - B (5 x 3= 15 Marks)

Write an algorithm to find the ODD or EVEN of the given number

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7.	Wha	at is the difference between while and do-while statement	CO1- U					
8.	What is meant by recursion?							
9.	How to pass a pointer to the function?							
10.	Defi	ne 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.  Or	CO1- U	(16)				
	(b)	Explain in detail about the classification and generation of computers	CO1- U	(16)				
12.	(a)	Explain in detail about Constants with examples.  Or	CO1- U	(16)				
	(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.  Or	CO3-App	(16)				
	(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 Or	CO1- U	(16)				
	(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)				

CO1- U