Enrollment No: ____

Exam Seat No: _____

_____ **C.U.SHAH UNIVERSITY** Winter Examination-2022

Subject Name : Introduction to Programming in C

Subject Code : 4C	S01ACP1	Branch: B.C.A.	Branch: B.C.A.			
Semester: 1	Date: 02/01/2023	Time: 11:00 To 01:30	Marks: 70			
Instructions:						

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q.-1 Attempt following MCQs.

1)	Which operator is a logical operator? a) > c) &&	b) d)	& = =
2)	Who is father of C language?a) James Robertc) Dennis Ritchie	b) d)	James Gosling None of above
3)	Which is <i>exit</i> controlled loop?a) whilec) dowhile	b) d)	for None of these
4)	The result of (45*2)%5 is a) 9 c) 5	b) d)	4 0
5)	What is memory size in bytes of char data a) 0 c) 2	type in (b) d)	16 bit machine? 1 4
6)	 scanf() available in header file a) conio.h c) both A and B 	b) d)	stdio.h None of these
7)	What is output of following code? int i, j, count=0; for (i=1; i<=5; i++) Page 1 3		



		{ for (i-1, i <-i,	:		
		for (j=1; j<=i;]++ <i>)</i>		
		{ count+-	+ :		
		}	,		
		}			
		printf("%d",count);			
	a)	5		b)	10
	c)	15		d)	25
8)	To a	ccess member of a structu	re, we can u	se	operator
	a)	>		b	. (dot)
	c)	*		d)	None of these.
9)	A va	riable in C can't start with	1		
	a)	number		b)	underscore (_)
	c)	an alphabet		d)	B and C
10)	Ever	y C Program must contain	ns		
	a)	printf()		b)	getch()
	c)	main()		d)	None of these
11)	Whi	ch symbol used in comme	ent line/s?		
	a)	//		b)	/* */
	c)	Both A and B		d)	None of these
12)	To d	eclare same data type mu	ltiple variabl	es, we	can use
	a)	Array	b)	Func	
	c)	string	d)	None	e of these
13)	If in	$t a[3][2] = \{\{11, 12\}\{13, 14\}\}$	4},{15,16}}	; then a	[1][1] is
	a)	13		b)	14
	c)	15		d)	16
14)		contains address of an	other variab	le.	
	a)	Array		b)	Pointer
	c)	UDF		d)	All of these
npt any	FOU	R questions from Q-2 to	Q-8.		

Attempt any FOUR questions from Q-2 to Q-8.

Q2	Attempt following.		
	a) Write a note on: History of C language.	7	
	b) Discuss machine, assembly and higher level languages.	7	



Q3	Attempt following.	14
	a) Define loop. Explain nested for loop with suitable example.b) Define operator. Explain arithmetic, relational and logical operators available in C.	7 7
Q4	Attempt following.	14
	a) Define type casting. Explain explicit type casting with example.b) Explain <i>nested if-else</i> with syntax and example.	7 7
Q5	Attempt following.	14
	a) Define array. Explain 1D & 2D array declaration in initialization process.b) Explain strlen() and strcpy() function with syntax and example.	7 7
Q6	Attempt following.	14
	a) Explain UDF with argument and with return values using suitable example.b) Define string. How to input string data in variable? Explain string initialization Process.	7 on 7
Q7	Attempt following. a) Write a C program to print following. ABCDE BCDE CDE DE E	14 7
	 b) Write a C program to count number of vowels (a,e,i,o,u) in given string. Example Input: keyboard Output: 3 	7
Q8	Attempt following. a) Write a C program to input string print following. Input: karma Output: k ka kar karm karma	14 7
	b) Write a C program to enter two numbers in pointer variable and find sum of two numbers.	7



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