DATE: 11/07/2022

Curriculum Scheme: Rev2019

All Programs

Examination: FE Semester II FH2022 Course Code: FEC205 Course Name: C Programming

Time: 2 hours Max. Marks: 60

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks. (2 Marks each)		
1.	What inbuilt function should be used to return a value rounded up to the next higher integer?		
Option A:	floor()		
Option B:	round()		
Option C:	puts()		
Option D:	ceil()		
2.	Collection of variables of same or different data types is called as		
Option A:	Array STARRAGES STARRAGES		
Option B:	Structure		
Option C:	Function		
Option D:	String String		
	3. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.		
3.	What is value of a in following expression?		
	int $a = 10 + 4.867$;		
Option A:	a=10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
Option B:	a=14.867		
Option C:	a=14		
Option D:	a=47688668668668		
	2222622622622622622622 2222622626262626		
4.	#include <stdio.h></stdio.h>		
Ś	void main()		
25 CV			
2 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	$\inf \mathbf{x} = 5;$		
	if (x == 5)		
	printf("hi\n");		
12 6 6 6 5 5 5 5 V	else printf("how are u\n");		
	printf("hello\n");		
Option A:	hi A S & A A A A A A A A A A A A A A A A A		
Option B:	hi		
Орион Б.	hello		
Option C:	how are you		
Option C.	hello		
Option D:	how are you		
Option D.	nowaic you		
5.	The value obtained in the function is given back to the main program by using		
	which keyword?		
Option A:	new A		
Option B:	return		
Option C:	volatile		
Option D:	static		
(C C C C C C C C C C C C C C C C C C C	1573577		

6.	In an array $a[2][2] = \{10,20,30,40,50,60\}$, then $a[0][1]$ is which element?
Option A:	
Option B:	20
Option C:	
Option D:	40

Q2	Solve any Four out of Six (4 marks each)
Α	Explain conditional operator used in C language with proper example.
В	Differentiate between entry and exit controlled loop with an example.
	Write a program to accept a number and to check whether it is Armstrong number or not.
С	(If sum of cube of digits equal to that number then number is Armstrong number. example
	13+53+33=153)
D	Define recursion. Write a program using recursive function 'power' to compute x raised
	to n i.e. x ⁿ which can be defined as given below:
	power $(x, n)=1$ if $n=0$
	power(x, n)=x if n=1
	power(x, n)=x*power(x,n-1) otherwise
Е	Explain following functions with proper example.
	a) strcmp() b) strcat() c) gets() d) strrev()
F	Write a program to accept elements of one dimensional array from user and sort and
	display them in ascending order.

Q3	Solve any Four out of Six (4 marks each)
A	Explain bitwise operators available in C?
В	Write a program to print the following pattern. Accept number of rows from user and display that much number of rows in output. 1 01 101 0101
С	Write a program to find factorial of a given number using function.
D	Explain compile time and run time initialization of an array with proper example.
E	Write a program to accept elements of two dimensional square matrix and check whether matrix is symmetric or not.
F	Write a program to read Title, Author and Price of 5 books using array of structures. Display the records in ascending order of Price.

Q4	Solve any Four out of Six (4 marks each)
A	Explain data type modifiers available in C language.
В	Write a program to accept three numbers and to find largest of three numbers using nested if-else.
C	Write a program to check whether the entered string is palindrome or not using user defined function.
D	Explain the following with proper example: a) break b) continue c) goto
E	Explain the advantages of using Function.
7 F 5	Distinguish between Structure and Union with proper example.