SOCSET- B. Tech - Semester - II (Regular & Remedial) Examination - Summer, 2023 Date: 04-07-2023 Course Code : C2210C1 Day: Tuesday Course Name: Programming in C Total Marks: 100 : 10:15 am to 1:15 pm Time

Instructions:

- 1. All questions are mandatory. There are no external options.
- 2. Make suitable assumptions, wherever necessary, and state them clearly.
- 3. Use of Non-Programmable Calculator is allowed/Not allowed.
- 4. Figures to the right indicate maximum marks.

Q:1		Attempt the following Questions.	(20
	1.	The statement allows for multi-way decision making based on the value of	
		an expression. (A) if-else (B) switch (C) for (D) while	
	2.	What will be the output of the following code?	
	2.	#include <stdio.h></stdio.h>	
		int main() {	
		int x = 10;	
		$if(x > 5)$ {	
		int x = 5;	
		printf("%d", x);	
		}	
		return 0;	
		} (A) 10 (B) 5 (C) Compilation error (D) 15	
		(A) 10	
	3.	Which of the following is not a valid C variable name? (A) int sum; (B) float rate; (C) int student_count; (D) int \$avg;	
	4.	A declaration float rate; occupies of memory?	
	7.	(A) 1 bytes (B) 4 bytes (C) 8 byte (D) 16 bytes	
,	5.	What will be the output of the following code?	
		#include <stdio.h></stdio.h>	
		int main()	
		{	
		char str[]={'I','T','M','B','U','\0'};	
		printf("%s", str);	
		return 0;	
		(A) I (B) ITMBU (C) ITMBU\0 (D) Compilation error	
	6.		
		(A) float ptr; (B) *float ptr; (C) float *ptr; (D) *float *ptr;	
\	7.	Which symbol is used to represent a decision or condition in a flowchart?	
>		(A) Rectangle (B) Diamond (C) Oval (D) Parallelogram	
-/	8.		
		(A) continue (B) break (C) goto (D) return	
	9.		
1		(A) for loop (B) while loop (C) do while loop (D) None of the mentioned	
()	> 10	Which of the following is required for a recursive function to terminate?	
X		(A) Base case (B) Recursive case (C) Looping construct (D) Function prototype	
7.0	THE RESERVE TO SERVE THE PARTY OF THE PARTY	The index of the first element in an array is	

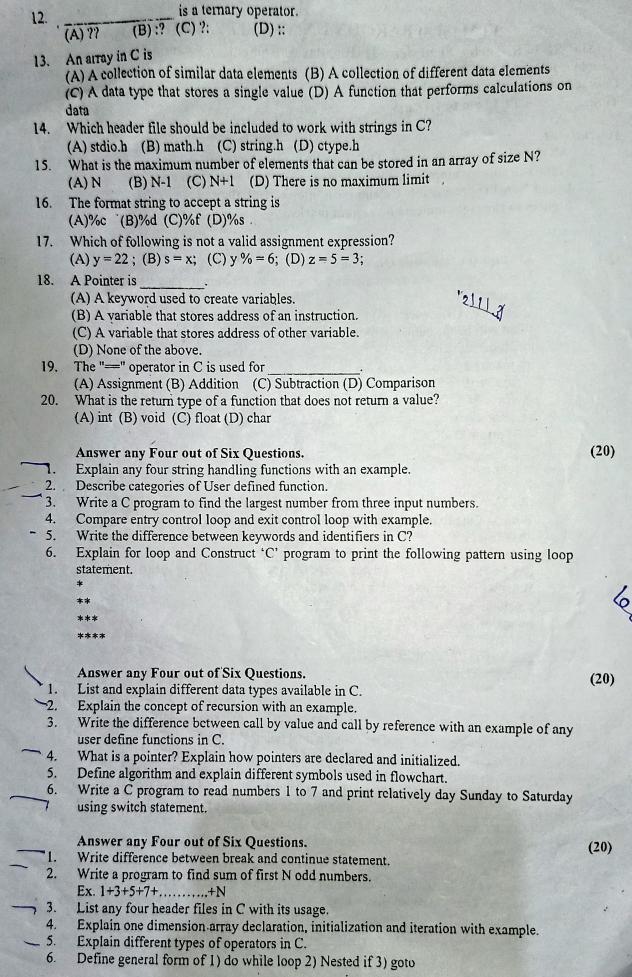
(D) The index can be arbitrary



(A)0

(B) 1

(C) - 1



Q:5 .

Answer any Four out of Six Questions.

1. Write a C program to find 1+1/2!+1/3!+1/4!+....+1/n!.

2. Explain actual and formal parameters (arguments). Write a C program with user defined functions to add, subtract, multiply and divide two numbers.

3. Define a structure "person" that would contain person name, date of

- joining and salary. Using this structure read information of 5 people and print the same on screen. Also display sum of salary of all 5 people.
- 4. Build a function to check number is prime or not. If number is prime then function return value is 1 otherwise return value is 0.
- 5. Explain various file management function in C.
 - 6. What is union in C. How union is different from structure in C.

-- END OF PAPER --