11/IV B.Tech (Regular / Supplementary) DEGREE EXAMINATION

November, 2020

Common to CS/EE/IT/EI

Second Semester

Problem Solving with Programming
Maximum: 50 Marks

Time: Three Hours

Answer ALL Questions from PART-A.

Answer ANY FOUR questions from PART-B.

(1X10 = 10 Marks)

(4X10=40 Marks)

Ans	wer z	ANY FOUR questions from PART-B.	(47110 10	, , , , , , , , , , , , , , , , , , , ,
		PART-A		
1.	a.)*	Differentiate = and == with suitable examples.	CO1	
	,		CO1	
	()	Differentiate compiler and interpreter.	CO1	
	d)	Write the statement for declaring an array "natural numbers" and initialize it with first 5 natural numbers.	CO2	
	e)	What is the use of NULL character in strings?	CO5	
	D	Define Pointer.	CO5	
	g),	Differentiate between call by value and call by reference	CO4	
	h)	What is the use of agrc and argv[] in passing parameters in command line arguments.	CO5	
	•		CO1	
4.	i)	Name any three pre-processor directives.	CO5	
	j)	Give the purpose of fseek() and ftell().		
		PART-B	_ CO1	5M
-2/	(a)			21.1
		with suitable examples.	CO1	5M
	b)	Write a C-program to find maximum of three numbers using conditional operator.	COI	JIVI
3	a)	Explain in detail about if-else, nested if-else statements with suitable example programs.	CO3	6M
7		Write a menu driven program to perform arithmetic operations.	CO3	4M
	_b)	Write a menu driven program to perform arrament of	100/10	
1	(a)	Explain in detail about while and for loop structures with example programs.	CO3	6M
1	•	Write a C-program to sort a list of names using arrays.	CO5	4M
	b) ·	White a C-program to soft a fist of hames asing arrays.		
-)	Explain in detail about one dimensional and two dimensional arrays with suitable program	s. CO5	6M
3/	'a)	Write a C-program to find image of a given number.	CO3	4M
	b)	write a C-program to find image of a given number.		
	-	Explain about pointer, its declaration, initialization, and write a C-program to swap two	CO5	6M
6.	a)		003	OIVI
		variables by using pointers.	CO3	4M
	b)	Write a C-program to find factorial of given number using recursion.	CO3	4171
7.	a)	Discuss about various kinds of user defined functions with suitable examples.	CO3	6M
	b)	Write a C-program to read three student details (Name, Roll No, and percentage) and	CO5	4M
	U)	display the student details using structures.		
		display the student details using structures.		
0	-1	Explain about #define pre-processor directive with an example program.	CO5	5M
8.	a)		CO5	5M
	b)	Explain about command line arguments with example program.	CO3	2141
9.	a)	Explain about malloc() and calloc() functions in detail with suitable example programs.	CO4	- 6M
7.	a) b)	Write a C-program to copy the contents from one file to another file.	CO5	4M
	U)	write a C-program to copy the contents from one the to another the.	000	ITAT