END TERM EXAMINATION

SECOND SEMESTER [B.TECH] JULY 2021

Pa	per	Code: E	TCS-108	Subject: Introduct	ion to Program	ming
TV	ne:	3 Hours			Maximum Mari	ks: 75
			ot any five question	ons including Q.No1 w Choice is indicated.		
Q1.	(a)	Different	ollowing in brief: iate between linker, known as mid-level	loader and assembler? language?	(2.5 x)	10)
	(d) (e)	Why is in What is t What wo inti;	identation important the difference between ald this code print? i< 3; i = i + 1) (n"); (n");	ith the help of an example t? en the 7, '7' and "7"?	?	
	(h) (i)	Explain Different	enumerators?	d NULL pointer with examp		
Q2		different	 (single equal) and kinds of division ances does it perform 	d = = (double equal) oper n that the / operator on each?	ators. What are the can do? Under	what (5)
	(b)	What wou int x = 3 if(x)				(2.5)
		else	<pre>printf("yes\n"); printf("no\n");</pre>			
		(i) Break	ate between the follows: Vs Continue statemal Vs Actual Argume	nent.		(5)
Q3	(a)	Differenti in C? Wri	ate between Automa ite a program to che	atic, Storage, Register and ck given string is palindro	i Extern Storage ome or not.	classes (7.5)
	(b)		ate between call by s sm with the help of a	value and call by reference an example?	e parameter passir	ng (5)
Q4	(a)	Differenti	ate between structu	re and union with example number of vowels and wo	e.	(5)
		"INTRO	DUCTION TO PROG	RAMMING".	rds in the string	(5)
	(c)	Under wi	<pre>if(T < 32) printf("ice\n"); else if(T < 212)</pre>	his code print ``water"?		(2.5)
		else	<pre>printf("water\n"); printf("steam\n");</pre>			

	 (a) If a four-digit number is input through the keyboard, write a program to the sum of the first and last digit of this number. (b) Explain File Handling Operations in C. (c) Declare a structure for employee record. Also determine size of this structure. 	(5) (5)
Q6	 (a) Explain different classifiers for formatted outputs with example. (b) Give function name, syntax and corresponding header fileto achieve following: To open a file in read mode. To clear the input buffer. To clear the output buffer. To read the buffered strings. To read the character Un-buffered. 	(5) ve the (5)
	(c) Differentiate between String and an Array?	(2.5)
•	 (a) Write a program to print Fibonacci series up to n number using recursion (b) Write a note on the following. Datatypes Preprocessor Functions 	1. (5) (7.5)
Q8	(a) Write a program to multiply two matrices.(b) Write a program to traverse the array?(c) Explain the use of stdlib.h and time.h files?	(5) (5) (2.5)
	 (a) Write a program that copies the file called "abc.txt" to another file "new.txt" (b) Write down an algorithm to find the sum of diagonal element of two matrix (c) Explain the difference between while and do while loop? https://www.ggsipuonline.com 	(5)