## B.E/B.TECH, M.E/M.TECH, MBA, MCA, POLYTECHNIC & SCHOOL

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	Reg. No. :
	Question Paper Code: 30115
	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.
	Second Semester
	Computer Science and Engineering
	CS 3251 – PROGRAMMING IN C
(Co	ommon to: Computer and Communication Engineering/Information Technology)
	(Regulations 2021)
Tim	e: Three hours  Answer ALL questions.
	PART A — $(10 \times 2 = 20 \text{ marks})$
1.	Draw the structure of C program.
2.	What is the purpose of format specifier in I/O statements? Give an example.
3.	Write down the syntax and give an example for array initialization.
4.	How to identify the length of a string?
5.	What is the function prototype? Give an example.
6.	What are the difference between user defined functions and built-in functions?
7.	What do you mean by self-referential structure?
8.	What is unique about the storage class 'register'?
9.	Describe the prototype of the function fopen().
10.	List the various modes of accessing a file through C.
	PART B — $(5 \times 16 = 80 \text{ marks})$
11.	(a) Explain the various data types being supported by C language. (16)  Or
	(b) Explain about the various looping statements available in 'C' with appropriate sample programs. (16)

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	1			
	12.	(a)	(i) What is an array? Explain about one dimensional array with sample program.	a (8)
			(ii) Write about the significance of header file, 'string.h' and write sho notes on any three string functions.	ort (8)
			Or	
		(b)	(i) Write and explain the procedure for selection sort.	(8)
		(b)		
			(ii) Write a C program to demonstrate matrix addition.	(8)
	13.	(a)	Write short notes on the following:	
			(i) function prototype and function call	(8)
			(ii) function definition and return value	(8)
			Or	
		(b)	Enumerate the difference between call by value and call by referen	ce
		(-)		.6)
	14.	(a)	(i) Explain the need for nested structures with appropriate examp	ole
	14.	(a)		(8)
			(2) Con a linked list energy dynamically? Justify your encyon wi	th
			<ul><li>(ii) Can a linked list grow dynamically? Justify your answer wi example C program.</li></ul>	(8)
			Or one of the same and awoh and	
		(b)	(i) With suitable diagram, explain the concept of singly linked list.	(8)
		(6)		
			(ii) Enumerate the difference between structure and union wi example.	(8)
	15.	(0)	How does random accessing of files are done in C language? Explain	in
	10.	(a)		16)
			Or	
		(b)	What is the purpose of the variables argc and argv of command li	ne
			arguments in C language? Explain with a sample program.	16)
			THAT	
			(b) Explain about the variate test to the variation in	
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