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Reg. No.: Question Paper Code: 90408 B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022. Second Semester Computer Science and Engineering CS 8251 - PROGRAMMING IN C (Common to: Computer and Communication Engineering, Information Technology) (Regulations 2017) Time: Three hours Maximum: 100 marks Answer ALL questions. PART A —  $(10 \times 2 = 20 \text{ marks})$ Define Array. State the difference between mean, median and mode. 4. 5. Give an example for recursive function. 6. Name any two math inbuilt functions and its usage. 7. What is a pointer? How do you declare it? What is the use of typedef? 9. Name any two file input functions. 10. What is the use of ftell () function?

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		(b)	(i) (ii)	example.	an (8) and (8)
		(b)		Briefly discuss about self-referential structures with example.	(8)
				Or	
			(ii)	Write a C program to get 5 subject marks of 'n' students a compute the total and average using array of structures.	and (8)
1	14.	(a)	(i)	Describe the usage of nested structure with suitable example.	(8)
			(ii)	Write a C program to get 'n' names in an array and sort it.	(8)
		(b)	(i)	Explain any four string in-built functions with syntax example.	and (8)
		V2 1		Or	
W	13.	(a)	(i) (ii)	Write a C program to find the factorial of a number us recursion.  Differentiate call by value and call by reference with suite example.	(8)
	410		(ii)	Write a C program to implement binary search concept.	(8)
		(b)	(i)	Write a C program to find the transpose of a matrix.	(8)
				Or	
			(ii)	Write a C program to check whether the input string is palindre or not.	ome (8)
	12.	(a)	(i)	Write a C program to get 'n' numbers in an array and print the sof odd numbers and even numbers.	sum (8)
			(ii)	Discuss about different looping statements with syntax example.	and (8)
		(b)	(i)	Define datatype. Describe the various datatypes used in programming.	C (8)
			(11)	components.	(8)
			(ii)	syntax and example.  Give the basic structure of a C program and explain	(8)
	11.	(a)	(i)	PART B — $(5 \times 16 = 80 \text{ marks})$ Explain the various types of decision-making statements v	with

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