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	Reg. No. :
	w (varia (12) section of the scaling of two metrices (21) arrays
	Question Paper Code: 70069
hich (8)	B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.
	Second Semester
	Computer Science and Engineering
	CS 3251 — PROGRAMMING IN C
(Co	mmon to Computer and Communication Engineering/Information Technology)
(00	(Regulations 2021)
Time	: Three hours Maximum : 100 marks
	Answer ALL questions.
	PART A — $(10 \times 2 = 20 \text{ marks})$
1. 2. 3.	What are the various types of operators? What is the use of preprocessor directive?  Declare a float array of size 5 and assign 5 values to it.
4.	Sort the following elements using selection sort method 23,55,16,78,2.
5.	How is pointer arithmetic done?
6.	Which is better to use? Macro or function. Justify your answer.
7.	What is meant by structure definition?
8.	Define self-referential data structure.
9.	Why are files needed?
10.	Give an example for fseek().
	PART B — $(5 \times 16 = 80 \text{ marks})$
11.	(a) Explain the storage classes in 'C' with suitable examples.
	Or
	(b) Explain the looping statement in C with suitable examples.

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12. (	(a) (i	Write a C program to multiply two matrices (2D array) by gettin input from the user.	
	(i	i) Write a C program to find scaling of two matrices (2D array) which will be entered by a user.	
		Question Paper Ode: 101059	
(	(b) (i	Write a C program to find determinant of a matrix (2D array) which will be entered by a user.	
	(i	i) Write a C program for matrix transpose. (8	5)
13. (	(a) (i	Classify the function prototypes with suitable examples. (8	)
	(i	<ul> <li>Write a C program to design the scientific calculator using built-in functions.</li> </ul>	
		Or	
(	b) (i	Explain the concept of pass by value and pass by reference. Write a C program to swap the content of two variables using pass by reference.	y
	(i	Explain about pointers and write the use of pointers in arrays with suitable example.	
WV	ty in	That is a structure? Create a structure with data members of various pes and declare two structure variables. Write a program to read data to these and print the same. Justify the need for structured data type.  Or  Trite a C program to create mark sheet for students using self-ferential structure.	
15. (	a) (i)	Write a C program to get name and marks of 'n' number of students from user and store them in a file.	
	(ii	Write a C program to read name and marks of 'n' number of students from user and store them in a file. If the file previously exits then append the information into the existing file. (8)	7
		Or	
()	b) (i)	Write a C program to write all the members of an array of structures to a file using fwrite(). Read the array from the file and display on the screen. (8)	l.
	(ii	) Describe command line arguments with example C program. (8)	,
		(i. (a) Explain the decays of costs in C. with sectable examples	
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