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## Question Paper Code: 60025

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022.

Second Semester

Computer Science and Engineering

CS 3251 — PROGRAMMING IN C

(Common to: Computer and Communication Engineering/Information Technology)

(Regulations 2021)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A —  $(10 \times 2 = 20 \text{ marks})$ 

- Write short notes on Keywords in C language. 1.
- What is difference between the statements a = 5 and a == 5 in language C? 2.
- Write down the syntax for array declaration. 3.
- What is the purpose and prototype of the function 'strcpy'? 4.
- Define the term recursion in language C. 5.
- What is the relation between the operators '&' and ' \* ' in C pointers? 6.
- In language C can we allocate memory dynamically? How? 7.
- What are the key differences between structure and union? 8.
- What will be the impact if 'fclose()' function is avoided in a file handling 9. C program?
- What are command line arguments?

PART B —  $(5 \times 16 = 80 \text{ marks})$ 

Draw the structure of a C program and explain each part in detail. 11. (a)

Or

Enumerate the difference between 'else-if ladder' and 'switch - case' (b) statements with appropriate C programs.

12.	(a)	(i)	What is an array? Explain about various types of arrays in detail.	(8)		
		(ii)	Explain the usage of 'streat()' with an C program.	(8)		
			Or			
	(b)	(i)	Differentiate binary search from linear search.	(8)		
		(ii)	Write a C program to compare two strings without using t function 'strcmp()'.	he (8)		
13.	(a)	What is modular Programming? How does the Language C support modular programming? Explain in detail.				
			Or			
	(b)	What is the necessity of parameter passing in C Programs? What are the two types of doing that? Explain any one in detail.				
14.	(a)			C? (8)		
			Why is singly linked list called as self-referential structur Explain.	e? (8)		
			$\operatorname{Or}$			
	(b)	(i)	Write short notes on 'Array of structures'.	(8)		
				of (8)		
15.	(a)	What Expla	is file? What are facilities available in language C to handle file in.	s?		
			Or			
	(b)		in the various file accessing policies available in language C wir priate programs.	th		