www.EnggTree.com

Reg. No.: E N G G T R E E . C O M

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

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

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

Or

(b) Enumerate the difference between 'else-if ladder' and 'switch – case' 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 'strcat()' 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 the function 'strcmp()'.	ne 8)
13.	(a)		at is modular Programming? How does the Language C suppoular programming? Explain in detail.	rt
			Or	
	(b)		at is the necessity of parameter passing in C Programs? What are to types of doing that? Explain any one in detail.	he
14.	(a)	(i)	The same property of the same	C? (8)
		(ii)	Why is singly linked list called as self-referential structu Explain.	re? (8
			Or	
	(b)	(i)	Write short notes on 'Array of structures'.	(8)
		(ii)	Write a comparative analysis on various storage classes language C.	of (8)
15.	(a)	Wha Expl	t is file? What are facilities available in language C to handle file ain.	s?
			Or	
	(b)	•	ain the various file accessing policies available in language C with opriate programs.	th