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## Question Paper Code: 40027

## B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018

Second Semester

Computer Science and Engineering CS 8251 - PROGRAMMING IN C

(Common to: Computer and Communication Engineering/ B.Tech. Information Technology) (Regulations 2017)

Time: Three Hours

(II)

Maximum: 100 Marks

## Answer ALL questions

PART - A

(10×2=20 Marks)

- 1. What is external storage class?
- 2. How does a preprocessor work ?
- What is an array? Write the syntax for multi-dimensional array.
- Design a C program for compare any two string.
- List the advantages of recursion.
- 6. When null pointer is used?
- 7. State the meaning of the root word struct.
- 8. Specify the use of typedef.
- How can you restore a redirected standard stream ?

(OR)

10. What does argy and argc indicate in command-line arguments?

PART - B

(5×13=65 Marks)

11. a) i) Explain the different types of operators used in C with necessary

III as Explain the type

ii) Write a C program to check the integer is Palindrome or not.

(8)

(5)

b) Describe the decision making statements and looping statements in C with (13)an example.

	12.	i	Write the C program to multiply two matrices (two-dimensional array) which will be entered by a user. The user will enter the order of a matrix and then ts elements and similarly input the second matrix. If the entered orders of	
		t	wo matrices are such that they can't be multiplied by each other, then an	
		e	Prop maggaga to displayed as the same	
			(OR)	(13)
	1	b) i	What are the different types of string function? Describe with their purpose.	
		***		(5)
		11,	Write the C program to find the number of Vowels, Consonants, Digits and white space in a string.	(8)
		WIII SON		(0)
	13. s		Explain the purpose of a function prototype. And specify the difference between user defined function and built-in functions.	(8)
		ii)	Write the C program to find the value of sin(x) using the series up to the given accuracy (without using user defined function) also print sin(x) using library function.	(5)
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		. 12		
	b	c	hat is difference between pass by value and pass by reference? Write the coding for swapping two numbers using pass by reference.	(13)
1	4. a	De	efine structure in C. Also specify the pointer and structure with example.  (OR)	(13)
	<b>b</b> )	i)	Write a C program for accessing structure member through pointer using dynamic memory allocation.	(8)
		::1		(6)
		ш,	Write a short note on singly linked list and specify how the node are	
56	un de		created in singly linked list.	(7)
1	5. a)	Ex	cplain the types of file processing with necessary examples.  (OR)	(13)
	b)	Wr	rite the C coding for finding the average of number stored in sequential	
		acc	noon tila	
			Transport Intribution from the Alexander and Alexander	(13)
			PART - C (1×15=15 Mar	rks)
-14	2 28	W.		0.00
14	,. I)	D	ite the case study of "How sequential Access file is differ from	
			ndom Access file".	(10)
	ii)	Wr	ite a C program to write all the members of an array of structures to a file	
		usii	ng fwrite (). Read the array from the file and display on the screen.	(5)

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