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B.E. (Computer Science & Engineering (New)) Third Semester (C.B.S.)

Advanced C & Programming Logic Design

P. Pages: 2 Time: Three Hours			s * 0 1 3 6 *	NJR/KS/18/4378 Max. Marks : 80	
	Note	s: 1. 2. 3. 4. 5. 6. 7. 8.	All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. Solve Question 5 OR Questions No. 6. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. Solve Question 11 OR Questions No. 12. Assume suitable data whenever necessary.		
1.	a)		s an array? Explain how one dimensional and two-dimensional array. Give example of each.	ay are stored in 7	
2	b)	Write a	program to find transpose of a matrix.	6	
			OR		
2.	a)		re structures? Give different way to declared them. When does com space in memory for members of structures.	piler know to 7	
	b)	i) En ii) Ty iii) Bi	a any three. numeration. pedef. tfield. zeof.	6	
3.	a)	Write a	program to copy abc.txt file into xyz.txt file.	5	
	b)	Explain	topen() function in detail with proper example.	5	
	c)	List var	rious error handling function in files.	4	
			OR		
4.	a)	Write a	program to count number of lines, words present in the file "PQr.tx	t" 5	
	b)	Explain	n command line argument with example.	5	
	c)	i) fte	ollowing function:	4	
6	5	iii) fpu	rror() uts()		
"/	4	iv) fcl	lose()	(C)	

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5.	a)	Compare static memory allocation with dynamic memory allocation.	7
76	b)	Explain calloc(), malloc(), realloc(), and free() function with syntax.	6
		OR	
6.	a)	What are pointers? Also explain pointer arithmetic and pointers operators.	7
	b)	Write a program to swap two numbers using pointer.	3
	c)	Differentiate pointer to structure and structure pointer.	3
7.	a)	What is the difference between graphics mode and text mode.	5
	b)	Explain initgraph() and closegraph() with example.	5
_	c)	Explain video Adapter in detail.	3
$\langle \langle \rangle$		OR	
8.	a)	Write a menu driven program to draw line, circle, rectangle, ellipse and arc on the screen.	7
	b)	Write a program to draw five chains of circles with different colors.	6
9.	a)	Compare recursion and iteration.	5
	b)	Define model of computation. List and explain various model of computations.	5
	c)	Explain notion of algorithm.	4
		OR	
10.	a)	What are the correctness and efficiency issues in programming. Explain in detail.	8
	b)	Difference between iterative approach and functional approach with respect to following: i) Programmer focus.	6
		ii) State changes. iii) Order of execution.	
11.	a)	List and discuss features of object oriented programming.	7
	b)	Explain imperative procedural and declarative programming with example.	6
		OR	
12.	a)	Explain in detail Assertion and loop invariants.	7
	b)	Write a program to create a structure student with field roll no, name and marks with 5 subjects and calculate percentage, result and grade and display it in proper form.	6
5	Z'	**************************************	7
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