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

Advanced C & Programming Logic Design

NJR/KS/18/4378 P. Pages: 2 Time: Three Hours Max. Marks: 80 Notes: 1. All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. 2. 3. Solve Question 3 OR Questions No. 4. Solve Question 5 OR Questions No. 6. 4. 5. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. 6. Solve Question 11 OR Questions No. 12. 7. Assume suitable data whenever necessary. 8. What is an array? Explain how one dimensional and two-dimensional array are stored in 1. a) memory. Give example of each. Write a program to find transpose of a matrix. b) OR What are structures? Give different way to declared them. When does compiler know to 7 2. a) reserve space in memory for members of structures. Explain any three. b) 6 Enumeration. i) Typedef. ii) Bitfield. iii) Sizeof. iv) 3. Write a program to copy abc.txt file into xyz.txt file. a) b) Explain topen() function in detail with proper example. List various error handling function in files. c) OR 4. Write a program to count number of lines, words present in the file "PQr.txt" 5 a) Explain command line argument with example. 5 b) Write following function: c) ftell() i) ferror() ii) iii) fputs() fclose() iv)

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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	7
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
Ø		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





High expectations are the key to everything. ~ Sam Walton

