## B.E. (Information Technology) Third Semester (C.B.S.) Programming Logic & Design Using C

P. Pages : 2 Time : Three Hours							NJR/KS/18/4393 Max. Marks : 80	
	Note	s: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	All questions carry marks as a Solve Question 1 OR Question Solve Question 3 OR Question Solve Question 5 OR Question 5 OR Question 7 OR Question 9 OR Question 9 OR Question 11 OR Questi	ons No. eatness a eer neces	2. 4. 6. 8. 10 12. and adequate dimensions. ssary. essary with the help of ne	at sketches.		
1.	a)	Define A	atisfy.	4				
	b)	Explain with example different operators used in C-language.						
	c)	Write a	C program to generate a Fibbo	nacci s	eries for first 100 numbers	<b>5.</b>	4	
				O	R			
2.	a)	i) For	the following with example. r loop se-If	ii) iv)	While loop Switch case		8	
	b)	Write a	C-program to reverse any num	ber ente	ered by user.		5	
3.	a)	How red	vith program.	5				
	b)	Explain		4				
	c)	What are various parameter passing techniques? Explain with example.						
				O	R			
4.	a)	Explain the preprocessor directive of C in brief.						
	b)	What do you mean by searching? Find the position of element 77 using Binary search in array A given below. $A = \{5, 14, 23, 32, 41, 50, 69, 77\}.$						
5.	a)	Explain		8				
	b)		program which accepts a string its, and other characters.	g from u	user and count the number	of words, vowels,	6	

6.	a) b)	A bank stores the information of their customers as follows.  Name, Address, Age, Gender, AccountID, AccountType and Balance  Write a C program using structure for accepting records of 100 customers and print the records of customer where AccountType is saving, Age>40 and Balance < 10000.  Differentiate between structure and union.					
	c)	Write a program which shows the use of pointer operator.					
7.	٠,	write a program which shows the use of pointer operator.					
	a)	What are various file opening modes?					
	b)	Explain file I/O and console I/O functions.					
	c)	Write a program to copy the contents of one file to another file using command line arguments.  OR					
		OK,					
8.	a)	Write a program to store the students record in the file and read the student record from the file. The students record should contain following information. Name, Roll-No, Semester, Branch, College & Result.					
	b)	Discuss following in detail any three.	6				
		i) Enumerated data types ii) Bitwise operator					
	c)	iii) Bit field operator iv) Volatile Qualifier What is differentiate between text file and binary file?	3				
	<b>C)</b>	what is differentiate between text life and binary life?					
9.	a)	What is difference between static and dynamic memory allocation?					
	b)	Explain the various dynamic memory management functions.					
	c)	Write a program to generate lines of different colors and styles.					
		OR					
10.	a)	Write a menu driven program using graphics having following options to draw. Square, Circle, Ellipse, Polygon.					
	b)	Explain the following graphics functions.	7				
		i) Getimage () ii) Imagesize () iii) Maya to ()					
		iii) Putpixel() iv) Move to() v) Floodfill() vi) Arc()					
		vii) Outtextxy()					
11.	a)	Explain various steps involved in invoking ROM-BIOS functions.					
	b)	Explain in detail Elementary TSR'S.	7				
		OR					
12.		Write a short note on:					
		i) Pointer variable.	3				
		ii) NULL pointers.	3				
		iii) Dangling Pointers	3				
		iv) Advantage of using Pointers.	4				

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