

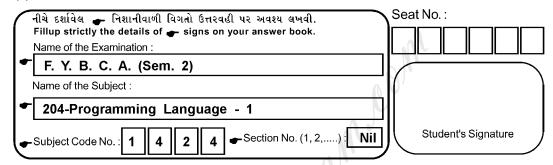
SB-1424

First Year B. C. A. (Sem. II) Examination March / April - 2011 204-Programming Language-I

Time: Hours] [Total Marks: 70

Instructions:

(1)



- (2) All questions are compulsory.
- (3) Do not interchange sub questions.
- 1 Answer the following in brief: (any seven)

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- (i) Give the rules for writing one dimensional array definition.
- (ii) What is a purpose of external variable? What is its scope?
- (iii) What is structure member? What is a relationship between structure member and structure?
- (iv) What do you mean by overflow and underflow of data?
- (v) Differentiate between if and goto statement.
- (vi) Differentiate between break and continue.
- (vii) How can you assign hexadecimal and octal value to integer value ?
- (viii) Explain any two string functions.

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2	Do	as directed:	
	(a)	Write a program to display the following pattern	7
	(55)	for say n=7	
		B A Z Y X W V	
		U T S R Q P	
		ONMLK	
		JIHG	
		F E D	
		СВ	
		A	
		\mathbf{OR}	
	(a)	Write the different features of macro and compare	7
		it with variable.	
	(b)	Define the structure called 'Inventory' that will	7
		describe the information like Ino, Iname, price, and qty.	
		Read record for 5 items and write a program to sort on	
		name of the item. Display records in appropriate form.	
3		empt the following:	
	(a)	Write a menu driven program to carry out the	8
		following operations on array:	
		(a) Traversing	
		(b) Insertion	
		(c) Deletion	
		(d) Sorting	
		\cup OR	
	(a)	Explain operators in C with their precedence.	6
	(b)	Explain different branching structure in 'C'.	
4	Ans	ewer the following:	
	(a)	Write a program to display circular matrix of given	8
		number N. If input is 4 then	
		16 15 14 13	
		5 4 3 12	
		6 1 2 11	
		7 8 9 10	
		OR	
	(a)	Explain the type conversion. Also describe the	8
		conditions in which explicit and implicit conversion	
		is used	
	(b)	Explain any three number functions in C.	6
		<u> </u>	

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[Contd...

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5	Do as directed:		
	(a)	How can you format an output of a 'C' program?	3
	(b)	How can '.' Operator is used inside a Union and a structure?	5
	(c)	Explain about structured programming.	6
		OR	
	(c)	Write a program to input a word and display the variations of the word.	6
		E.g. If input is 'space'	
		Then output should be	
		snace naces acesn cesna esnac	

pa espac

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