

AAF-6101 Seat No. 1243

B. C. A. (Sem. II) Examination April/May - 2018

BCA - 201 : Advanced Programming Language "C"

[Total Marks: 70 Time : 3 Hours] Attempt the followings: (a) 1 Define: Scope of variable. (1)What is function ? (2)(3) Local variables are visible in all blocks and functions in the program (True/False) A variable declared inside a function by (4) default assumes Storage class. (b) Answer the following: (any two) 8 List out the categories of function. Explain (1)function with argument and NO return value with example. (2) What is Recursion? Explain with example. How to pass one-dimensional array to (3) function explain with example. Attempt the followings: (a) (1) Differentiate array with structure. Explain definition of structure and

AAF-61011

(2)

initialization of structure members.

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(b)	Ansv	ver the followings: (any two)	8
21.14	(1)	Explain Array within structure with example	
	(2)	Explain Union with example	
	(3)	Explain array of structure with example.	
(a)	Atte	mpt the followings :	4
()	(1)	List out any one benefit of pointer	
	(2)	What is Pointer ?	
	(3)	Define : Scale factor.	
	(4)	A pointer may be initialized to 0, NULL or an address. The value NULL points to	
	,	nothing (True/False)	
(b)	Ans	wer the followings (any two)	8
	(1)	Explain strings as Pointers with example.	
	(2)	Explain initialization and accessing one dimensional array element using pointer.	c-
	(3)	Explain pointers as function arguments.	
(a)	Atto	empt the followings :	4
	(1)	Write the purpose of feof().	
	(2)	What the purpose of rewind()?	
	(3)	Calloc allocates multiple blocks of storage, each of the same size. (True/False).	
	(4)	When does programmer use #include directive ?	

(b)	Answer the followings: (any two)		
	(1)	What is macro? Explain macros with argument with example,	
	(2)	Explain command line arguments with example.	-
	(3)	Explain getw() and putw() with syntax and example.	
(a)	Atte	mpt any two from the followings:	10
	(1)	Write a program to find factorial of a given	
		number using recursion.	
	(2)	Design a structure student_record to contain name, branch and total marks obtained.	
		Write a program to read data for 10	
-	100	students in a class and print on screen.	
	(3)	Write a program to check the number is	
		Palindrome or Not using UDF.	
(b)	Atte	mpt any two from the followings:	12
	(1)	Write a program to swap the two values using pointers and UDF.	
	(2)	Write a program to work as a dos type	

command using command line argument.

Write a program that counts the number of

characters and number of lines in a file.

(3)