7.	(a)	Write a program to find the sum of two	0
		matrices of dimension 3*3 ?	7

- (b) Define Arrays. Explain 2-D and 3-D arrays in detail.
- 8. (a) Write a program to count the number of vowels present in text file 'abc.txt'. 7
  - (b) Discuss the concept of storage classes in detail.8
- 9. (a) Write a program to sort the elements of an array using selection/bubble sort techniques.8
  - (b) Write a program to search an element in an array using linear/binary search. 7

No. of Printed Pages: 04 Roll No. ......

## **B-212**

## B.C.A. EXAMINATION, May 2017

(Second Semester)

(B. Scheme) (Main & Re-appear)

(BCA)

BCA-104-B

## PROGRAMMING IN C

Time: 3 Hours [Maximum Marks: 75]

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

**Note**: Question No. 1 is compulsory. Attempt any *Four* questions from Unit by selecting at least *one* question.

(4-02/14)M-B-212 P.T.O.

1.	(a)	Discuss the following terms: 15		(b)	Temperature of a city in Fahrenhiet
		(i) Keywords			degrees is input through keyboad. Write
		(ii) Prototypes		;	a program to convert this temperature
		(iii) Static variables			into centigrade degrees. 5
	(b)	Differentiate between the following:		(a)	What do you mean by Preprocessor
		(i) gets() and getchar()		` /	Directives ? Explain. 7
		(ii) arrays and structures		(b)	Explain various data types supported by
		(iii) break and continue statements		. ,	C. <b>8</b>
		(iv) #include <filename> and #include "filename"</filename>	4.	` /	Write a program to find the greatest of
		(v) call by value and call by reference			the three numbers. 8
	(c)	Discuss why header files needs to be		(b)	What do you mean by Recursion?
		included in any program.			Explain with example. 7
	(d)	What is the length of long double data types in C ?		` ′	Write a short note on bitwise operators. 8 Briefly explain the concept of 'for',
2.	(a)	Write short notes on the following: 10			'while' and 'do-while' loops.
		<ul><li>(i) Algorithms</li><li>(ii) Modular Programming</li><li>(iii) Unformatted and Formatted I/O functions in C</li></ul>	1	self re	do you mean by Structures? Explain eferential structures and nested structures suitable examples.
M-I	3-212	2		15)M-F	3-212 3 P.T.O.