

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

0	9	1	4
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Exam. Code :

0	0	2	7
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Bachelor of Computer Applications 1st Semester

(2123)

PROBLEM SOLVING THROUGH C

Paper—BCA-16-104

Time Allowed : Three Hours]

[Maximum Marks : 65

Note :— Candidate is required to attempt *five* questions in all including Question No. 9 (which is compulsory) and attempt remaining *four* questions by selecting *one* question from each Section.

SECTION—A

1. Discuss the significance of decision table and algorithm development in the programming process. Write the algorithm for generating Fibonacci series. 13
2. Write about various operators available in C language along with their hierarchy. Write about the structure of C program along with a sample code. 13

SECTION—B

3. Differentiate between a while and for loop. Write a program in C to compute factorial of a given number. 13

4. How are library functions different from user defined functions ? Explain various methods for parameter passing to functions with the help of suitable sample codes. 13

SECTION—C

5. Explain the concept of arrays of characters with an application. Write a C Program to search the element in an array. 13
6. Elaborate on various dynamic memory allocation functions along with their importance in C programming. 13

SECTION—D

7. Discuss various I/O operations from files. Write a C Program to read a text from a file and provide number of words in the same. 13
8. Explain the concept of string manipulation in C language highlighting the use of major string handling functions with example. 13

(Compulsory Question)

9. (a) How is array passed to a function ? 3
- (b) What is a pseudo code ? 2
- (c) Define debugging. 2
- (d) What is switch ? 2
- (e) Write about address operator. 2
- (f) What are arrays of structures ? 2