

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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Bachelor of Computer Applications 2nd Semester

1046

**COMPUTER PROGRAMMING AND PROBLEM SOLVING
THROUGH C**

Paper : BCA-204

Time Allowed : Three Hours]

[Maximum Marks : 90

Note : Attempt **one** question each from Section and compulsory Question No. 9. All questions carry equal marks. Non-programmable calculator is allowed.

SECTION-A

1. (a) What do you mean by Algorithm ? Write an algorithm to find largest of three numbers. 9
- (b) Briefly, explain the steps in development of a Program. 9
2. (a) What is C ? Discuss various input and output functions in C. 9
- (b) With help of a diagram, explain the structure of a C Program. 9

SECTION-B

3. (a) What is Operator ? Explain various bitwise operators available in C. 9
- (b) What do you mean by Storage class ? Describe various types of storage classes in C. 9

4. (a) What is a Function ? Draw the difference between call by value and call by reference. 9

(b) Defines loop. Explain various types of loops available in C. 9

SECTION-C

5. (a) Explain the use of array of structure in C with a program. 9

(b) What do you mean by Array ? Write a program in C to find product of two matrices. 9

6. (a) How can you represent one and two dimensional arrays in memory ? 9

(b) Write a Program in C for Linear Search. 9

SECTION-D

7. What is File ? Elaborate various file operations in C with suitable examples. 18

8. (a) What do you mean by Pointer ? How can you declare and initialize pointer in C ? 9

(b) What is string ? Discuss various string handling functions available in C. 9

(Compulsory Question)

9. Write short notes on the following with help of example/diagram if needed :

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|-----------------------|---|
| (a) Union | 2 |
| (b) Flow Chart | 2 |
| (c) Debugging | 2 |
| (d) Logical Operators | 2 |
| (e) Recursion | 2 |
| (f) Switch Statement | 2 |
| (g) Symbolic Constant | 2 |
| (h) Nested IF | 2 |
| (i) Address Operator. | 2 |