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ID-8036

B.C.A. EXAMINATION, 2022

(Batch 2021-2022)

(Second Semester)

C PROGRAMMING

Code: BCA106

Time: 3 Hours

Maximum Marks: 80

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: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

- 1. (a) What is the role of Header file in C program ?
 - (b) Differentiate between constant and variables.
 - (c) Explain Break and Continue statement.
 - (d) What is Pointer? How is Pointer initialized?
 - (e) What is function prototype?
 - (f) What are nested Loops?
 - (g) What is Array of string?
 - (h) What are storage class? Give the classification of storage class. 16

Unit 1

- 2. (a) What are the basic dat type in 'C'? Explain with example.
 - (b) Write a program in 'C' to obtain the gross salary by calculating dearness allowance and house rent allowance. 16

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3. What is meant by hierarchy of operators?

Provide a brief outline of all operators supported by 'C' language along with their hierarchy with in expressions using suitable examples.

Unit II

- 4. (a) Write a program to find the number of and sum of all integers greater than 100 and less than 200 that are divisible by 7.
 - While statement? What is minimum number of times while and do-while statement will be executed?
- 5. (a) Write short notes on the following:
 - (i) Break statement
 - (ii) Continue and go to statement
 - (b) Write a program using while loop to reverse the digits of the number. 16

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Unit III

- Differentiate between Call by value and Call by reference with example.
 - (b) Explain various string manipulation function with example. 16
- (a) Differentiate gets(), getch(), getche(), getchar() with example.
 - (b) What do you mean by function prototyping? Write down the advantages of function prototype in 'C'. 16

Unit IV

- 8. (a) What is an array? Explain different types of array with suitable example.
 - (b) Write a program to find the highest of three numbers using pointers to function.

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- 9. (a) What is an algorithm? What are the characteristics necessary for a sequence of instructions to qualify as an algorithm?
 - (b) Write a program in c to add two matrices of order m * n.

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