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(20516)Roll No. ....

BCA-II Sem.

# 18006

## B. C. A. Examination, May 2016

## C Programming

(BCA-202)

(New)

Time: Three Hours]

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[Maximum Marks: 75

Note: Attempt questions from all Sections as per instructions.

### Section-A

## (Very Short Answer Questions)

Attempt all the *five* questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.  $3 \times 5 = 15$ 

- ١. What are two-dimensional arrays? How can you initialize them?
- 2. How does a structure differ from an array?

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https://www.ccsustudy.com (2)

3. Distinguish between (\*m) [5] and \*m[5].

How can you declare and initialize a string? 4.

5. Explain the meaning of the following:

- Tag
- Size of.

#### Section-B

## (Short Answer Questions)

Attempt any two questions out of the following three question Each question carries 71/2 marks. Short answer is required not exceeding 200 words. 71/2×2=15 https://www.ccsustudy.com

What is a dynamic array? How is it'created? Give a 6. typical example of use of a dynamic array.

7. Write a program to illustrate the comparison of structure variables.

What is a pointer? How can it be initialized? Write a 8. program using pointer to read in an array of integers and print its elements in reverse order.

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#### Section-C

#### (Detailed Answer Questions)

Attempt any *three* questions out of the following five questions. Each question carries 15 marks. Answer is required in detail.  $15 \times 3 = 45$ 

- (a) Give the main advantage of storing data as a file.
   Describe various ways in which data files can be categorized in 'C'. Illustrate by using examples.
  - (b) Enumerate the difference between functions and parameterized macros.
    Why do we recommend the use of parentheses for formal arguments used in a macro definition?
- 10. (a) Describe the two bitwise shift operators. What requirement must be operands satisfy? What is the purpose of each operand?
  - (b) Describe two different approaches to updating a data file. Which approach is better and why? For what kinds of applications are unformatted data files well suited?

 (a) Write a program to illustrate the use of structure pointers.

- (b) What are jumping statements? Explain the difference between break and continue statements.
- (a) Describe the limitation of using getchar and scanf functions for reading strings. Write a program which will read a text and count all occurrences of a particular word.
  - (b) What is prototyping? Why is it necessary? Distinguish between the following:
    - (i) Scope and visibility of variables
    - ii) Actual and formal arguments.
- 13. (a) What is a 'slack byte'? How does it affect the implementation of structures? Describe three different approaches that can be used to pass structures as function arguments.
  - (b) Write a function using pointers to add two matrices and to return the resultant matrix to the calling function.

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