(20519)

Roll No.

Total Questions: 13 |

[Printed Pages: 4

18006

B.C.A. IInd Semester Examination, May-2019

C-PROGRAMMING

(BCA-202)

Time: 3 Hrs.]

[M.M. : 75

Note :- Attempt all the Sections as per instructions.

Section-A

(Very Short Answer Type Questions)

Note: Attempt all five questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.

- What are three dimensional arrays? How can you initialize them?
- 2. How a union is different from a structure?
- 3. What do you mean by a dangling pointer?

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4. What are bit fields?

5. What are the use of standard functions fopen() and feof()?

Section-B

(Short Answer Type Questions)

Note: Attempt any two questions out of the following three questions. Each question carries 7.5 marks. Short answer is required not exceeding 200 words.

- Write a program that will count the number occurrences of a specified character in a given line of text.
- 7. Write a program to pre-multiply a matrix by its transpose.

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8. Design a structure named student to store data about a student which contains following data element:

Date Item	Type	Length
Roll No.	int -	-
Name	char	20
College	char	40
Score	float	_

Assume that there are not more than 100 students. Write a program to input the data about students, and output the stored data according to the merit of the students.

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Section-C

(Long Answer Type Questions)

- Note: Attempt any three questions out of the following five questions. Each question carries 15 marks. Answer is required in detail.
- 9. (i) How is a multidimensional array defined in terms of an array pointer? What does each pointer represent? How does this definition differ from a pointer to a collection of contiguous arrays of lower dimensionality?
 - (ii) What is meant by dynamic memory allocation? What library function is used to allocate memory dynamically? How is the size of the memory block specified? What kind of information is returned by the library function?
- 10. (i) Write short notes on the following:
 - (a) strlen()
 - (b) strcpy()
 - (c) strcat()
 - (d) strcmp()
 - (ii) What are the important points to be considered when implementing bit-fields in structures?

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- 11. (i) Describe *two* different approaches to undating a data file. Which approach is better and why? For what kinds of applications are unformatted data files well suited?
 - (ii) Write a function using pointers to add two matrices and to return the resultant matrix to the calling function.
- 12. (i) What is a masking operation? What is the purpose of each operand? Which operand is the mask, and how is it chosen?
 - (ii) Write macro definitions with arguments for calculation of simple Interest and Amount. Store these macro definitions in a file called 'Interest.n'. Include this file in your program, and use the macro definitions for calculating simple interest and amount.

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- 13. (i) What are the difference between Union and Structure?
 - (ii) Write short notes on the following:
 - (a) fewind()
 - (b) fseek()

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- (c) fgetc()
- (d) fscanf()

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