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17/71-C

B.C.A. (First Semester) Examination, 2017

Paper: Third (103)

(Programming Principles and 'C' Language)

Time: Three Hours |

[Maximum Marks : 70

Note: Attempt questions from all sections as per instructions.

Section-A

(Very Short Answer Type Questions)

Note: Attempt all parts of this question. Give answer of each part in about 50 words.

 $1\frac{1}{2} \times 10 = 15$

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- 1. (i) Define flowchart.
 - What is main difference between variable (ii) and constant?
 - What is nested loop? (iii)
 - (iv) What is Syntax Error?
 - Explain any two string functions.

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- (vi) What is pointer?
- (vii) Differentiate between union and structure.
- (viii) Explain any two file handling function.
- (ix) Explain macros?
- (x) What is preprocessor?

Section-B

(Short Answer Type Questions)

Note: Attempt all questions. Give answer of each question in about 200 words. $7 \times 5 = 35$

Discuss about the various steps involved in the Analysis of algorithm.

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OR

Explain in brief structure of C programming.

Write a program to find the factorial of a given number of your choice.

OR

Define a control statement and explain the various types with an example.

Discuss the Two Dimensional Array with examples.

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OR

What do you mean by Recursion? Explain with an example.

Describe two different ways to specify the address of an array element.

OR

What is a structure member? What is the relationship between a structure member and a structure?

Explain dynamic memory allocation in detail.

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OR

Write a program to store the manufactures detail in a file.

Section - C

(Long Answer Type Questions)

Note: Attempt any two questions. Give answer of each question in about 500 words.

 $10 \times 2 = 20$

What is the range of various data types? Discuss the primary data types in detail.

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(4)

- 8. Write a program in C to sort integer elements of one dimensional array in ascending order.
- Discuss the parameter passing techniques of function with an example.
- 10. Draw a Flowchart to find the average of 10 numbers.
- 11. Write short notes on any two of the following:
 - Switch Statement
 - Nesting of function (ii)
 - Random Access File.

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