TKN/KS/16/5951

Bachelor of Computer Applications (B.C.A) Semester–I (CBS) Examination "C" PROGRAMMING

№ Paper—II

Time—Three Hours]

[Maximum Marks—50

N.B. (1) **All** questions are compulsory and carry equal marks.

- (2) Use either ANSI 'C' or Turbo 'C' for program writing
- (3) Draw neat and labelled diagrams wherever necessary.

EITHER

- 1. (a) Explain the following terms:
 - i) Sequence
 - ii) Selection

(b) Define Pseudocode? Explain programming structure giving suitable example. 5

OR

- (c) Write an Algorithm to find the roots of quadratic equation. 5
- (d) What is flowchart? Explain the limitations of flowchart; also discuss algorithm. 5

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EITHER

- 2. (a) What is data type? Explain any four data types with suitable example. 5
 - (b) What is operator? Explain relational operator with example. 5

OR

- (c) What are library functions? Explain with example any two library functions.
- (d) Write a program in C to print the following

1 1 2 1 2 3 1 2 3 4 1 2 3 4 5

5

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EITHER

- 3. (a) What is an Array? Write a program in 'C' to insert an element in one dimensional array.
 - (b) What is recursive function? Explain with example.

OR

- (c) How would you define and initialize two dimensional array? Explain with example addition of two dimensional array.
- (d) What is function? Explain with example function with argument and function without argument. 5

EITHER

- 4. (a) What is structure? Differentiate structure and union.
 - (b) List file modes. Describe various file mode operations.

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OR

(c) What is pointer? Discuss with example void pointer.

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- (d) What are command line arguments? Explain with example.
- 5. (a) What is Iteration programing structure? Explain in brief. 2½
 - (b) What is 'nested if'? Explain with suitable example. 2½
 - (c) What is storage class? Explain 'auto' storage class. 2½
 - (d) Explain fprintf() and fscanf() with suitable example. $2\frac{1}{2}$

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