



## Term Evaluation Theory (Odd)-(Late/Lateral Admission) Exam Nov. 2025

Roll no.....

Name of the Course:BCA/BCA(AI &DS)/BCA (CS&CL)

Semester:1st

Name of the Paper:Computational Thinking and fundamentals of IT

Paper Code: TBC 101/TBD 101/TBL 101

Time: 1.5 hour

Maximum Marks: 50

### Note:

- (i) Answer all the questions by choosing any one of the sub-questions
- (ii) Each question carries 10 marks.

Q1. (10 Marks)

a. Explain computational thinking and the subsets of it in terms of any real life example.CO1

OR

b. Explain the advantages of flowchart and compare it to algorithm with a proper example.CO2

Q2. (10 Marks)

a. Explain the steps to convert data into information and how information is different from data.CO1

OR

b. Explain the reasons to use pseudo-code and differentiate it with algorithm.CO2

Q3. (10 Marks)

a. Explain the types of data we have in computational thinking and the fields where it has been used with one example each.CO1

OR

b. Draw a flowchart to print a number 5 times and explain it.CO2

Q4. (10 Marks)

a. Describe classic puzzle solving technique's abstraction and pattern recognition part with one technical field example.CO1

OR

b.Explain the iteration,loop and branching in flowchart with examples.CO2

Q5. (10 Marks)

a. Write down the pseudocode for checking whether the number is even or odd till the limit of 100.CO1

OR

b. Explain Algorithm with example and its characteristics in detail. CO2