Graphic Era
HILL UNIVERSITY
Established by an Act of the State Legislature of Uttarakhand (Adhiniyam Sankhya 12 of 2011)
University under section 2(f) of UGC Act, 1956

Term Evaluation (Odd) Semester Examination September 2025

Roll no..........................

Name of the Course: BCA
Semester: I
Name of the Paper: Computational Thinking & Fundamentals of IT
Paper Code: TBC-101 / TBD-10f / TBL-10f
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 the process of converting Data into information with a suitable examples for the following :
         (i) Image
         (ii) Audio

OR

   b. Write a pseudocode for finding the largest of three numbers and explain its logic step by step. (CO1)

Q2.   (10 Marks)
   a. Define a flowchart and explain three key advantages of using flowcharts in problem-solving. (CO1)

OR

   b. Draw a flowchart to check whether the number is prime or not.   (CO1)

Q3.   (10 Marks)
   a. Describe the classic puzzle-solving approach in computational thinking with an example.
                                                                                          (CO2)

OR

   b. Define an algorithm and explain its five key characteristics with examples.   (CO1)

Q4.   (10 Marks)
a. Describe a real-world problem and show how computational thinking can help solve it efficiently.
                                                                                          (CO2)

OR

b. Define Algorithm with sequencing, selection, iteration with examples.   (CO1)

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Q5. (10 Marks)

a. What is Pseudo Code? Why do we use in the field of computer? Give some examples. (CO1)

OR

b. What is Data? How it helps in the field of Computer? Explain any five types of data. (CO1)