

**Assignment No-1 : Even Semester 2023-24**

**Course : BCA-DS**

**Semester : 4<sup>th</sup>**

**Date of Issue : 22/02/23**

**Date of Submission : 26/02/23**

**Subject Name: ARTIFICIAL INTELLIGENCE**

**Max. Marks : 20**

**Subject Code : BCA-DS-211**

**Learning Outcomes:**

**LO1:** To clear concept of Artificial Intelligence.

**LO2:** To clear concept of Application of AI

**LO3:** To learn knowledge representation

**LO3:** To learn the algorithm and time & space complexity using AI.

**Q1** What do you understand by these. Explain

- Importance of Knowledge
- Knowledge Representation
- Various approaches used in Knowledge Representation
- Issues in Knowledge Representation

**[6](CO-2)**

**Q2.** What do you understand by these. Explain

- Artificial Intelligence
- Application of AI
- Area used in AI
- State space representation(Solve Water Jug Problem)

**[6](CO-1)**

**Q3.** Write Best first search Algorithm technique with suitable example in AI.

**[4](CO-2)**

**Q4.** Write the hill climbing search algorithm. What is the problem in hill climbing? Explain using Example.

**[6](CO-1)**