

## Assignment – 1

Attempt all questions as 7 marks.

- 1) State Water Jug problem. Give its state space representation.
- 2) Explain A\* algorithm. What happens if  $h'$  underestimates  $h$  and overestimates  $h$ ?
- 3) What do you mean by constraint satisfaction problems? Explain constraint propagation algorithm using suitable example.
- 4) Enlist and discuss major task domains of Artificial Intelligence.
- 5) Write and explain algorithm for resolution in propositional logic with suitable example.