



NATIONAL INSTITUTE OF TECHNOLOGY SRINAGAR,
HAZRATBAL-190006, JAMMU AND KASHMIR
DEPARTMENT OF CSE
B. Tech (CSE)
CSE 601, Artificial Intelligence.

Assignment 3(Knowledge Representation)

Q1. Answer the following questions in brief.

- (a) What is a rational agent?
- (b) What are the elements of an agent?
- (c) Give the steps adopted by a problem solving agent.
- (d) What is agent program and agent architecture?
- (e) What is admissible heuristic?
- (f) What is greedy best first search?

Q2. Convert the following statement into First Order Logic

- (a) Brothers are sibling.
- (b) One's mother is one's female parent.
- (c) A first cousin is a child of a parent's sibling
- (d) God help those who help themselves.
- (e) Fruits and vegetables are nutritious.
- (f) "Some medicines are dangerous only if taken in expensive amount", Translate the sentence above sentence into formulas in predicate logic