St.Joseph's Institute of Technology

Department of CSE

SUB CODE : CS6659   SUB. NAME : ARTIFICIAL INTELLIGENCE

ASSIGNMENT I

UNIT I

Part A

1. What is AI technique?
2. What are the steps to be considered to solve a problem?
3. What is a production system?
4. What are the different dimensions to be analyzed for a problem?
5. What are the three classes of problem?
6. How is production system classified?
7. How can we avoid ridge and plateau in hill climbing?
8. What is means-end analysis?

Part B
1. Explain how different problem characteristics are analyzed in detail.
2. Explain the constraint satisfaction procedure to solve the crypt arithmetic problem.

          C R O S S
       + R O A D S
          D A N G E R
3. Explain problem-reduction algorithm in detail.
4. Explain AO* algorithm with a suitable example. State the limitations in the algorithm.