



PG – 456

V Semester M.C.A. Examination, December 2016
(CBCS)
COMPUTER SCIENCE
MCA 503 : Artificial Intelligence

Time : 3 Hours

Max. Marks : 70

SECTION – A

Answer **any five** questions. **Each** carries **6** marks.

(5×6=30)

1. What are the different characteristics of the problem which need to be analysed to select an appropriate method for solving the problem ? Explain.
2. Explain TMS with a neat diagram.
3. Discuss planning v/s state space search. Explain the components of planning.
4. What are the steps in natural language processing ? List and explain them briefly.
5. What is Game playing ? Discuss its application in artificial intelligence.
6. Express the following concepts as an Semantic Net structure with interconnected nodes and labelled arcs :

Company ABC is a software development company. Three departments within the company are sales, administration and programming. Joe is the manager of programming. Sue and Bill are programmers. Sue is married to Sam. Sam is an editor for Prentice Hall. They have three children and they live on Elm street. Sue wears glasses and is five feet four inches tall.

7. Write A* algorithm. Discuss its performance.
8. Explain the expert system architecture.

P.T.O.

