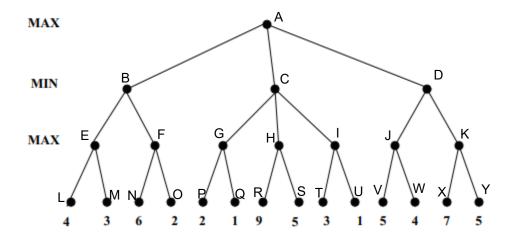
MCS - 102 Artificial Intelligence Mid-Sem Exam

Time: 1 Hour Total Marks: 15

- 1. What is a rational agent approach to AI? How is it different than Turing test approach?
- 2. List the major differences between best-first, Greedy best -first and A* algorithms.
- 3. Given below a game tree:



What nodes would not be needed to be examined using α - β pruning procedure? Write your answer giving justification for each pruned node.

[8]

[3]

[2]

- 4. Define some good heuristic functions for each of the following problems:
 - (i) Travelling Salesman
 - (ii) Tic-Tac-Toe

[2]