Time: Term Test # 02 Marks: 10

SET: A

Assume the following axioms facts:

- 1. X is a student.
- 2. X likes interesting classes.
- 3. X doesn't attend boring classes.
- 4. AI classes were boring.
- 5. Attended means present.

Use resolution to answer the question, "Was X present in AI classes?"

10

Time: Term Test # 02 SET: B

For solving which types of problem, minimax procedure is appropriate? Why?

2

Marks: 10

- Differentiate between Predicate Logic and Propositional Logic. Explain with example.
- 3
- Assume the following axioms facts:
  - X is a boy.
    X likes Con
  - X likes Comedy movies.
  - 3. X doesn't watch action movies.
  - 4. X watched a movie last week.
  - 5. The name of the movie X watched is y.

Convert the above axioms to first order logic.

5

5

Time: Term Test # 02 Marks: 10 SET: C

Assume the following axioms facts:

- 1. X is a student.

  - 2. X likes interesting classes.
  - 3. X doesn't attend boring classes.4. AI classes were boring.

  - 5. Attended means present.

Convert the above axioms to first order logic.

Use resolution to answer the question, "Which type of movie Y is?"

5

5

Time: Term Test # 02 Marks: 10 SET: D

Assume the following axioms facts:

- 1. X does unnecessary staffs all over the night.
- 2. X likes to sleep at day.
- 3. X studies in CSE department.4. Classes of CSE department are at day.
- 5. X does not attend classes.

Convert the above axioms to first order logic.

Which type of search technique Minimax is? BFS/DFS? Can we make a combination of BFS and DFS in 5 Minimax searching? will it be beneficial? How?

Time: Term Test # 02 Marks: 10 SET: F

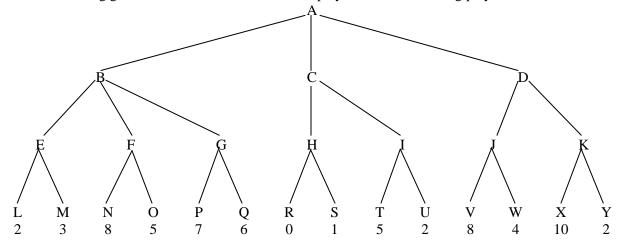
Assume the following axioms facts:

- 1. X is a student.
- X studies in CSE department.
  X has passed HSC in the year 2012.
- 4. Passing year is session.
- 5. The students of 2012 session of CSE department are awesome.

Use resolution to prove the statement, "X is awesome."

SET : E

Consider the following game tree and assume that the first player is the maximizing player:



1. Use minimax search procedure to decide which move should the first player choose? Show each step.

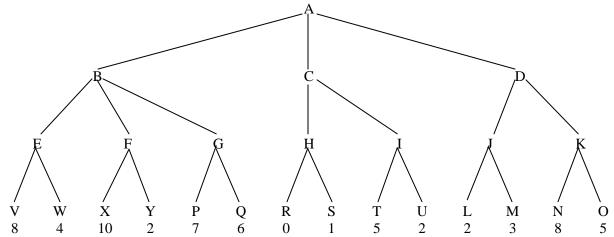
2. Apply alpha-beta pruning and list which nodes would not be examined? Show each step.

Marks: 10

5

Term Test # 02 SET : H

Consider the following game tree and assume that the first player is the maximizing player:



1. Use minimax search procedure to decide which move should the first player choose? Show each step.

2. Apply alpha-beta pruning and list which nodes would not be examined? Show each step.

5

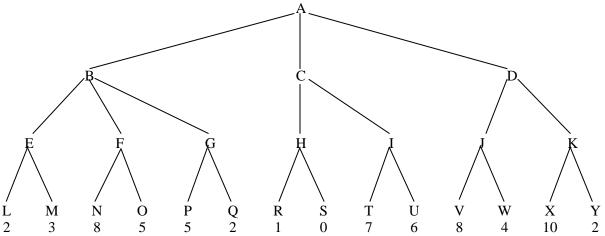
Marks: 10

Time: 30minutes

Time: 30minutes

Term Test # 02 SET : I

Consider the following game tree and assume that the first player is the maximizing player:

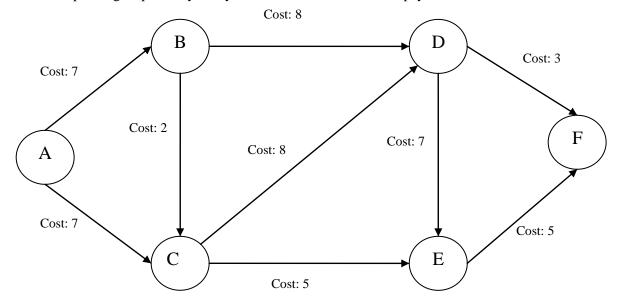


1. Use minimax search procedure to decide which move should the first player choose? Show each step.

2. Apply alpha-beta pruning and list which nodes would not be examined? Show each step.

SET: J

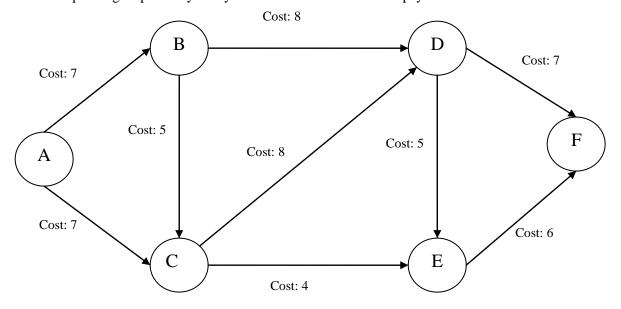
Assume X and Y are planning a tour which will cover 5 places: B, C, D, E, F. X and Y will pay alternatively trying minimal spending respectively. They will start from A and X will pay first.



10 Build a search tree from above map, assign values to leaf node. Apply minimax procedure for X to decide which destination to choose first with minimal spending than Y.

Time: Term Test # 02 Marks: 10 SET: K

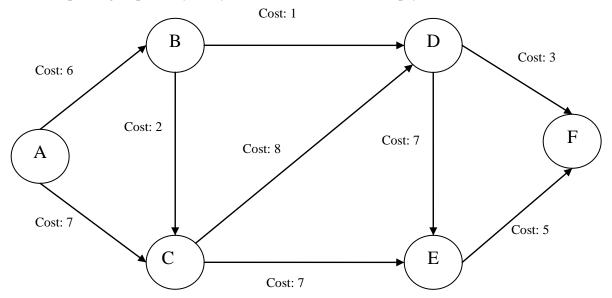
Assume X and Y are planning a tour which will cover 5 places: B, C, D, E, F. X and Y will pay alternatively trying minimal spending respectively. They will start from A and X will pay first.



Build a search tree from above map, assign values to leaf node. Apply minimax procedure for X to decide which destination to choose first with minimal spending than Y.

SET : G

Assume X and Y are planning a tour which will cover 5 places: B, C, D, E, F. X and Y will pay alternatively trying minimal spending respectively. They will start from A and X will pay first.



Build a search tree from above map, assign values to leaf node. Apply minimax procedure for X to decide which destination to choose first with minimal spending than Y.