

CS 323: AI, QUIZ #4. Time 10 mts. DT. 08/04/2016, Max Marks 24
(Solution included.)

Select **one or more than one, or nil** answer in the following multiple choice questions. Fully correct answer carries 2 pts, fully wrong -1, partly right has 1 pt.

1. Prisoner's dilemma is following type(s) of game:

- (A) Non-cooperative game (B) Non-zero sum game
(C) Imperfect information game (D) all the above

Ans: A, B

2. Poker is following type(s) of game:

- (A) Zero-sum (B) Perfect Information
(C) Non-zero sum (D) None of above

Ans: A

3. Which of the following are static games?

- (A) Prisoner's dilemma (B) Bid of winning a contract
(C) Chess (D) Poker

Ans: A, B

4. Which of the following are called simultaneous move games?

- (A) Prisoner's dilemma (B) Bid of winning a contract
(C) Chess (D) Poker

Ans: A, B

5. The tic-tac-toe is following type of search:

- (A) Iterative deepening (B) DFS
(C) Best-first search (D) BFS

Ans: D

6. Alpha value is defined by the values of successors of:

- (A) MAX position (B) MIN position
(C) Both MAX and MIN (D) None of above

Ans: A

7. Alpha-cutoff occurs among the successors of:

- (A) MIN position (B) MAX position
(C) Depends of the structure of the tree (D) None of above

Ans: A

8. Beta value is defined by the values of successors of:

- (A) MAX position (B) MIN position
(C) Can be any position (D) None of above

Ans: B

9. Beta-cutoff occurs among the successors of:

- (A) MIN position (B) MAX position
(C) Depends of the structure of the tree (D) None of above

Ans: B

10. The alpha-beta search belong to the following class of algorithm:
(A) Hill-climbing (B) Branch-and-bound
(C) Divide-and-conquer (D) Iterative approximation

Ans: B

11. Alpha is defined at odd level of the tree (T/F)?

Ans: T

12. Beta is defined at even level of the tree (T/F)?

Ans: T