True-False

- 1) Minimax algorithm propagates node values from all tenninal states upward to the root.

 Ans: True
 - 2) In CSP, a goal state is one where the assignment is complete, and all constraints are satisfied.

Ars: True

3) Alpha-Bota pruning is used because MiniMax can not provide the best move.

Ans: False.

Pruning on without pruning the outcome of a game tree is always same.

Ans: True

3) Pruning is used to reduce search cost compromising the connectness.

Ans: False

6) Alpha-Bota prioring algorithm always priviles one on more branches from the search space tree.

Ans: False.

Forward cheeking can detect assignment failure conlien than Constraint propagation.

Ans: False

Mcg

- 1) Advensarial search works in an evinonment where-@ agents work against the goal of another.
- 2) A function that neturns an estimate of the expected utility of the game from a given position is called (b) Evaluation function.
- 3) Which one of the below is not true about Alpha-Beta pruning.

Ans: (d) Ordening of the terminal nodes does not impact pruning.]

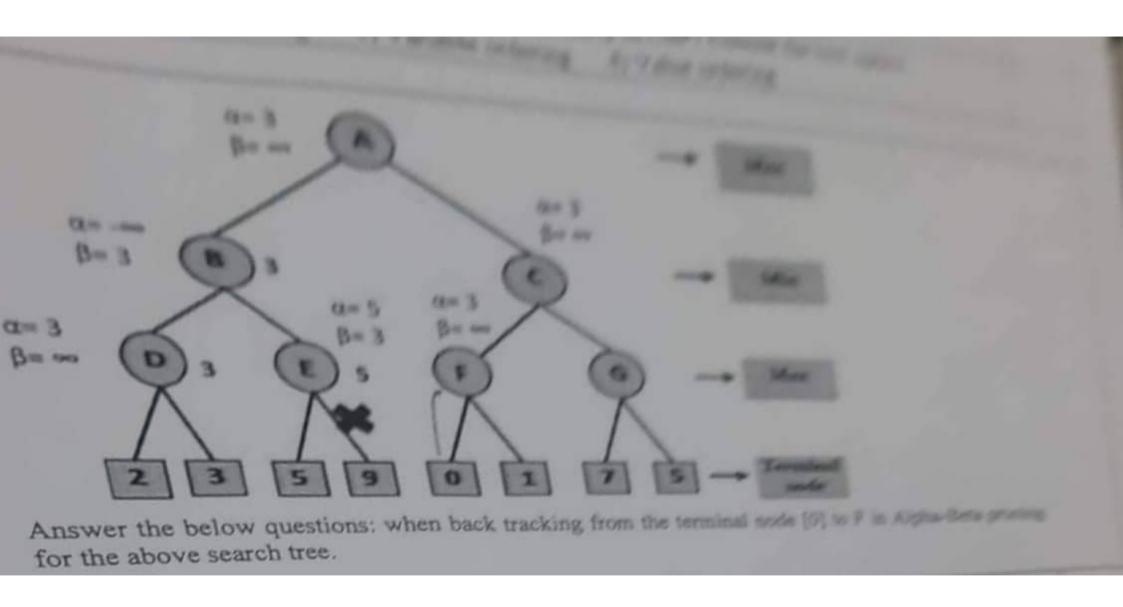
(9) Which teenique can explore more nodes in the same amount of time?

Ans: (b) Alpha Beta pruning

(5) Which one of the below is not connect?

Ans: (a) [Minimax algorithm determines optimum storagy for Max]

© Ifa a game has average branching factor 10, and average moves 8, then there will be size of game space Ans © 108





- Thich value Fuill be considered for updating?

 Ars: @d or @ none
- (0) What will be the node value of F While going back to C? Ans: (6) 1
- (I) Hill the terminal node [1] be pruned?

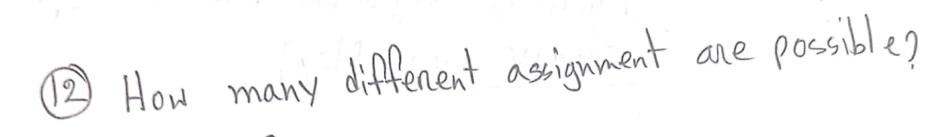
 (B) no

Imagine you are coloring the below map. Adjacent regions must be colored with distinct enlar B=Blue, G=Green).

Rl	R2	R4
	R3	R5 \
		R6

Answer the below questions for the above problem





Frank Commence Frank

Ans @ 36

(13) How many constraint are there?

Ans: (b) 8