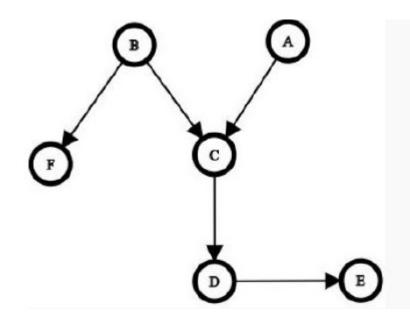
2/26/2021 Al Quiz 3

Al Quiz 3 *Required	
Name and Roll Number *	
Your answer	
How many parameters are required to be estimated in a Q-learning algorithm in a world consisting of S states and A different actions? *	1 point
O(S, A)	
O(S)	
O(A)	
O(AS)	
Which of the following is correct for model-based and model-free reinforcement learning? *	1 point
Model-based reinforcement learning requires more parameters and data to learn	า
Model-free learning can simulate new episodes from the past expereince	
Model-free learning can exploit the uderlying MDP structure	
All the above are correct	

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Which of the following strategies can be adopted for managing exploration 1 point in Q-learning? *
Random action with probability p and greedy actions with probability 1-p
O Performing actions that have been performed less with lesser probability
O Maximizing exploration function where an exploration term is added to the exploitation term
None of the above can be used
Which of the following is the property of MDP? * 1 point
Reward function and state transition function are independent of all the states
Reward function and state transition function depends only on current state
Reward function and state transition function depends on all the previous states
Reward function and state transition function depends on all the future states
In reinforcement learning, zero discount factor implies that * 1 point
Rewards from all states are equally weighted
Rewards from future distant states are considered
Rewards from past states are considered
Reward from immediate state are considered

Consider the following Bayesian Network in all the subsequent questions



Given the evidence about C, which of the variables are conditionally independent? *

1 point

- A and B
- A and F
- A and D
- A and E

Which of the following variable is in Markov blanket of F? *

1 point

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How many parameters are required to represent the above Bayesian network if all variables are boolean? *	1 point
Your answer	
Suppose X and Y are conditionally independent of Z. Then which of the following are correct? *	1 point
P(X, Y) = P(X).P(Y)	
P(X, Y, Z) = P(X Y, Z).P(Y Z).P(Z)	
P(X, Y, Z) = P(X Z).P(Y Z).P(Z)	
$ P(X, Y \mid Z) = P(X Z).P(Y Z) $	
The process of summing over hidden variables in order to answer a query from Bayesian network is called *	1 point
Enumeration	
Conditioning	
Fitting	
Elimination	

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