Assignment 12

The due date for submitting this assignment has passed. Due on 2020-04-22, 23:59 IST.
As per our records you have not submitted this assignment.

1) In web graph, on which we perform Google page ranking
   - Web pages are the nodes and hyperlinks are the edges
   - Hyperlinks are the nodes and web pages are the edges
   - Both hyperlinks and web pages are nodes
   - Both hyperlinks and web pages are edges
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Web pages are the nodes and hyperlinks are the edges

2) In pagerank algorithm on a directed network, we randomly move from a node A to
   - a random node which is pointing to A
   - a random node which A is pointing to
   - a random node out of all the nodes which are either pointing to A or the nodes which A is pointing to
   - none of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   a random node which A is pointing to

3) Which of the following statements is FALSE?
   - Barbell graph is connected
   - In both complete graph and cycle graph, every node has the same degree

1 point
In any star graph having more than 2 nodes, there are at least 2 nodes having the same degree

All the above statements are true

No, the answer is incorrect.
Score: 0
Accepted Answers:
All the above statements are true

4) Which of the following statements choose a random node from a graph G?  

- random.choice(G)  
- random.node(G.nodes())  
- random.choice(G.nodes())  
- none of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
none of the above

5) The function networkx.pagerank(G) returns

- a list  
- a set  
- a dictionary  
- a numpy array

No, the answer is incorrect.
Score: 0
Accepted Answers:
a dictionary

6) Choose one network from following which is not directed.

- citation network  
- Follower-followee network of Twitter  
- Supply chain network  
- Friendship network of Facebook

No, the answer is incorrect.
Score: 0
Accepted Answers:
Friendship network of Facebook

7) Which of the following functions is used to make a directed graph?

- networkx.DiGraph  
- networkx.digraph  
- networkx.DiGraph  
- networkx.diGraph

No, the answer is incorrect.
Score: 0
Accepted Answers:
networkx.DiGraph

8) The output of G.out_edges(nodename) is

- List of lists  
- List of dictionaries  
- List of vertices
9) What happens when a gold coin distribution game is played on the following network?

- One node ends up having all coins and the game stops
- The game stops after some iterations but one node does not end up having all the coins
- The game enters an infinite loop
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers: List of tuples

10) The number of gold coins in the gold coin distribution game

- keeps increasing in every subsequent iteration
- keeps decreasing in every subsequent iteration
- keeps varying randomly in every subsequent iteration
- remains constant

No, the answer is incorrect.
Score: 0
Accepted Answers: remains constant