Module 1 Quiz
Graded Quiz • 50 min **Due** Aug 16, 11:59 PM PDT

QUIZ • 50 MIN Module 1 Quiz Review Key Concepts

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Module 1 Quiz

1. Select all the true statements below.

Connections between a set of items in the network are called vertices.

Weighted networks are used to describe networks with unequal relationships between nodes.

An undirected graph is a good choice to present a network with asymmetric relationships between nodes.

When there are only two opposite relationships between nodes, a signed network is a good representation. 2. A network that has parallel edges (a pair of nodes with different types of concurrent relationships) is called a ______. 1 point

O Directed Network Weighted Network Signed Network Multigraph

3. Suppose we want to plot a network representing a small food web for students in a biology class. In order to give them a better understanding of the network, we want to show who is the predator and who is the prey. For those predators who have multiple options for prey, we also want to represent the predator's preferences (i.e. which prey it likes most or second most). Choose the most appropriate type of network. O Undirected Network

O Directed Signed Network Directed Weighted Network Unweighted Network Signed Network

TOTAL POINTS 10

4. Select all true statements: Edges can carry many labels or attributes. Suppose G is a graph and node A, B are two of G's nodes. G.edge['A']['B'] and G.edge['B']['A'] will return the same value for all types of networks.

Accessing node or edge attributes in NetworkX is the same as accessing values in a Python dictionary Suppose we have created a nx.Graph()object G with some nodes and edges. The statement G.nodes(data=True) will return a list of tuples.

5. Based on the following lines of code, what is the type of G.edge['A']['C']? 1 import networkx as nx

Dictionary List String

6. Based on the following lines of code, what's the correct statement to access the edge attribute "friend"? 1 import networkx as nx

G.edge['A']['B']['relation'] G.edge['A']['B'][0]['relation'] G.edge['A']['B'][1]['relation'] G.edge['A']['B']['relation'][0] G.edge['A']['B']['relation'][1]

7. After all lines of code below are executed, what is(are) the role(s) of node A? 1 import networkx as nx

Check all that apply:

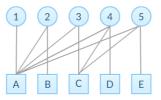
Manager Friend

Business Partner Classmate

8. Based on the bipartite network below, select all the edges you can add to the network while maintaining its bipartite 1 point structure.

✓ (3, E)

Based on the bipartite network below, which of the following is the bipartite projection of the graph onto the set of circle nodes?



Based on this bipartite network, suppose you create a weighted bipartite projection of the graph onto the set of square nodes. What is the weight of edge AC in the projection graph?

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