## Module 1 Quiz

Quiz, 10 questions

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.

Module	Undirected Network  1 Quiz
	ti <sup>O</sup> frected Signed Network
	Directed Weighted Network
	Unweighted Network
	Signed Network
1 poin	t
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.
1 poin	t
5.	
Based	on the following lines of code, what is the type of G.edge['A']['C']?
4	<pre>import networkx as nx  G=nx.MultiGraph() G.add_node('A',role='manager') G.add_edge('A','B',relation = 'friend') G.add_edge('A','C', relation = 'business partner') G.add_edge('A','B', relation = 'classmate') G.node['A']['role'] = 'team member' G.node['B']['role'] = 'engineer'</pre>
10	
	Dictionary
	List
	String

## Module 1 Quiz

Quiz, 10 questions point

6.

Based on the following lines of code, what's the correct statement to access the edge attribute "friend"?

```
import networkx as nx

G=nx.MultiGraph()
G.add_node('A',role='manager')
G.add_edge('A','B',relation = 'friend')
G.add_edge('A','C', relation = 'business partner')
G.add_edge('A','B', relation = 'classmate')
G.node['A','B', relation = 'classmate')
G.node['A','B', relation = 'classmate')
G.node['B', role'] = 'team member'
G.node['B', role'] = 'engineer'
```

	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]

1 point

7.

After all lines of code below are executed, what is(are) the role(s) of node A?

```
import networkx as nx

G=nx.MultiGraph()
G.add_node('A',role='manager')
G.add_edge('A','B',relation = 'friend')
G.add_edge('A','C', relation = 'business partner')
G.add_edge('A','G', relation = 'classmate')
G.node['A']['role'] = 'team member'
G.node['B']['role'] = 'engineer'
```

Check all that apply:

Manager
Friend
Rusiness Partner

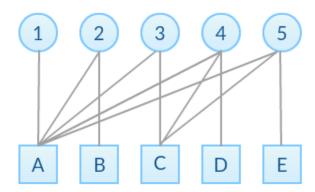


Engineer

1 point

8.

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



(1, B)

(3, E)

(B, D)

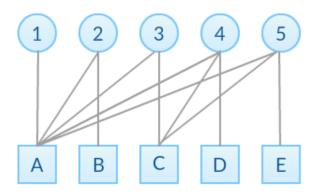
(2, 4)

1 point

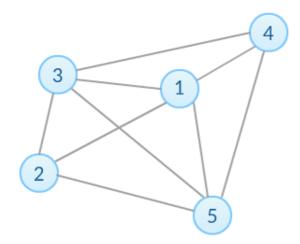
9.

Based on the bipartite network below, which of the following is the bipartite projection of the graph onto ModeletbQuiZnodes?

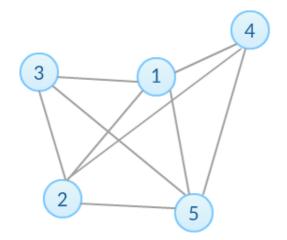
Quiz, 10 questions

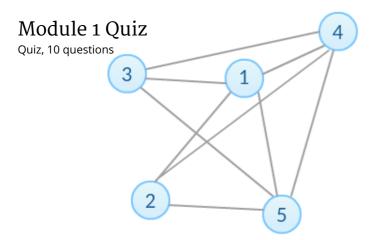




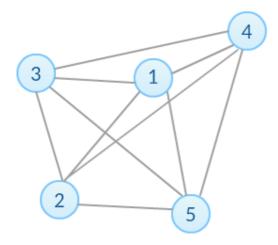


В







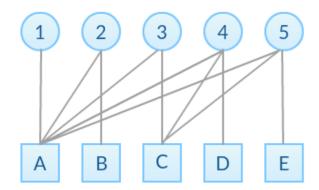


1 point

10.

## Module 1 Quiz

Quiz, 10 questions



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?

- 1
- 2
- **3**
- 0 4
- 5



I, **Sunil Sharma**, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

Learn more about Coursera's Honor Code

Submit Quiz



