Congratulations! You passed!
TO PASS 80% or higher

Keep Learning

GRADE
100%

Module 1 Quiz

LATEST SUBMISSION GRADE
100%

1. Select all the true statements below. **1 / 1 point**

Correct

2. A network that has parallel edges (a pair of nodes with different types of concurrent relationships) is called a _____. **1 / 1 point**

Correct

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. **1 / 1 point**

Correct

4. Select all true statements: **1 / 1 point**

Correct

5. Based on the following lines of code, what is the type of G.edge['A']['C']? **1 / 1 point**

```
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'

```

Correct

6. Based on the following lines of code, what's the correct statement to access the edge attribute "friend"? **1 / 1 point**

```
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'

```

Correct

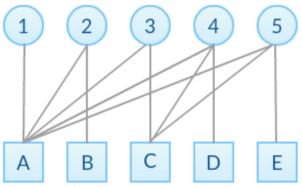
7. After all lines of code below are executed, what is(are) the role(s) of node A? 1 / 1 point

```
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'

```

Check all that apply:

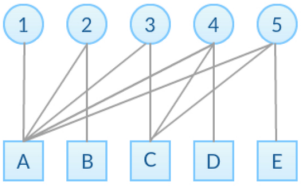
✓ Correct

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



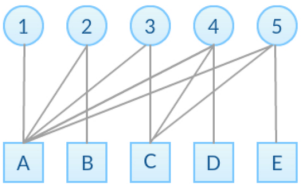
✓ Correct

9. Based on the bipartite network below, which of the following is the bipartite projection of the graph onto the set of circle nodes? 1 / 1 point



✓ Correct

10. 1 / 1 point



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?

✓ Correct