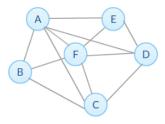


## **Module 2 Quiz**

## TOTAL POINTS 10

1. Consider the given network. What is the value of node F's local clustering coefficient?

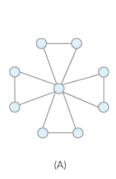
1 point

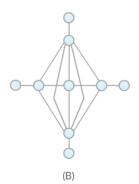


- 0.5
- 0.6
- 0.7
- 0.8

 $2. \quad \hbox{Given the following two networks, which of the following is True?}$ 

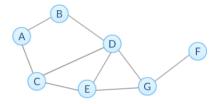
1 point



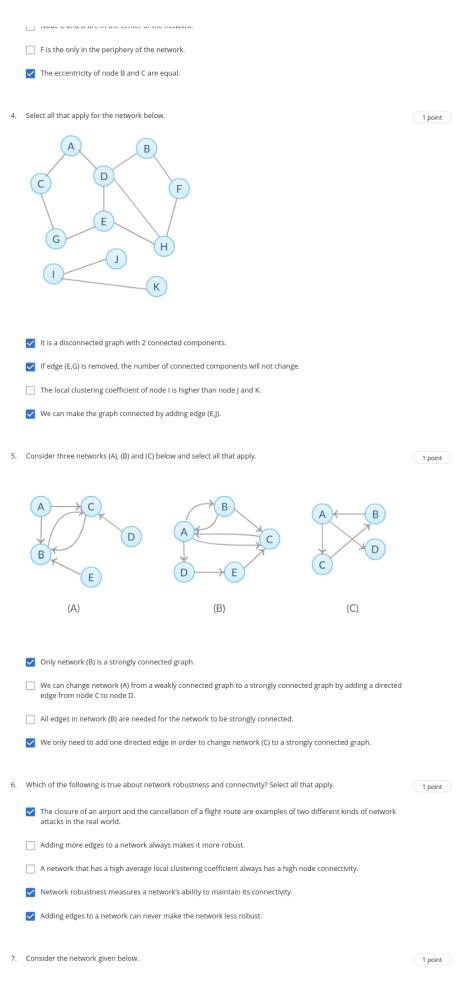


- Network (A) has higher average local clustering coefficient and higher transitivity than (B).
- Network (A) has higher average local clustering coefficient but lower transitivity than (B).
- Network (A) has lower average local clustering coefficient and lower transitivity than (B).
- Network (A) has lower average local clustering coefficient but higher transitivity than (B).
- 3. Consider the network shown below and select all that apply.

1 point

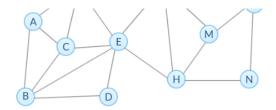


- The radius of this network is half of its diameter.
- The deletion of node G will make the network disconnected.
- If we perform Breadth-First Search (BFS) from node A, the BFS tree we obtain will have a depth of 4.
- ☐ Node C and D are in the center of the network



F



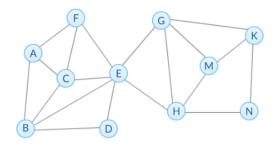


What's the node connectivity of the network?

- 1
- O 2
- 3
- O 4

8. Consider the network given below.

1 point

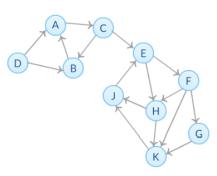


What is the edge connectivity of the network?

- O 1
- 2
- O 3
- O 4

The directed network below shows how information can be transferred between nodes. For example, node A
can pass the information to node C directly but not vice-versa. If node C wants to send messages to node A, all
data must be forwarded by node B.

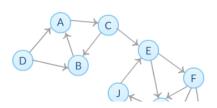
1 point

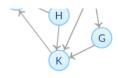


What is the total number of simple paths from node D to node K?

- O 5
- O 6
- O 7
- 8
- O 9
- 10. The directed network below shows how information can be transferred between nodes. For example, node A can pass the information to node C directly but not vice-versa. If node C wants to send messages to node A, all data must be forwarded by node B.

1 point





		Save		Submit
✓	I, Piyush Sambhi, 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		3	<b>♀</b> ₽
	Removing edges (H,K) and (F,G)			
	✓ Removing edges (H,K) and (E,F)			
	Removing edge (H,K)			
	Removing node F and H			
	Removing node G and H			
	Removing node H only			
	Suppose we want to block all information channels from node E to node K. Which of the following opti achieve this goal? Check all that apply.	ons		