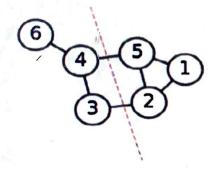
Question 1

Calculate the normalized cut



Selected Answer:

9/10

1

Question 2

Select all of the true statements

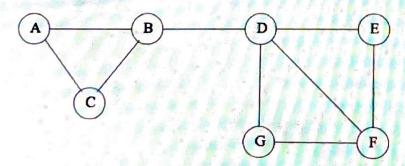
Selected Answers:

In the Girvan Newman algorithm, each DAG edge must be part of a shortest path from root node.

A high betweenness score suggests that an edge runs between two different communities.

Question 3

Use the Girvan-Newman algorithm to perform the credit calculation starting from node G. What is the final credit assigned to G?

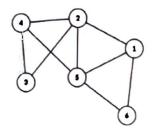


Selected Answer:

7

Question 4

For the given graph, we want to generate the adjacency matrix & degree matrix & laplacian matrix



	1	2	3	4	5	6
1	3 20					
2						
3	A - -	В		c		
4				D		
5					E	
6					F	

1. For the adjacency matrix, please fill in the blanks: (2 pts):

2. For the degree matrix, please fill in the blanks: (2 pts):

3. For the laplacian matrix, please fill in the blanks: (2 pts):

Specified Answer for: A

Specified Answer for: B 1

Specified Answer for: C 0

Specified Answer for: D 3

Specified Answer for: E

Specified Answer for: F -1