

Unit 8 - Week 6

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

- Lecture 13 Part 1 - 2-Connected Graphs
- Lecture 13 Part 2 - 2-Connected Graphs
- Lecture 14 Part 1 - Subdivision of an edge; 2-edge-connected graphs
- Lecture 14 Part 2 - Problems Related to Graphs Connectivity
- Lecture 15 Part 1 - Flow Network
- Lecture 15 Part 2 - Residual Network and Augmenting Path
- Quiz : Week 6 Practice Assignment
- Quiz : Assignment 6**
- Week 6 Feedback : Graph Theory
- Assignment 6 Solution

Week 7

Week 8

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Assignment 6

The due date for submitting this assignment has passed. Due on 2020-03-11, 23:59 IST.
As per our records you have not submitted this assignment.

1) Let G be 2-edge-connected graph. Then 1 point

- every edge is not necessarily in a cycle
 every edge of G is in a cycle

No, the answer is incorrect.
Score: 0

Accepted Answers:
every edge of G is in a cycle

2) Let G be a simple graph with v vertices and $\delta(G) \geq v - 2$, then 1 point

- $k(G) = \delta(G)$
 $k(G) < \delta(G)$
 $k(G) > \delta(G)$
 none of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
 $k(G) = \delta(G)$

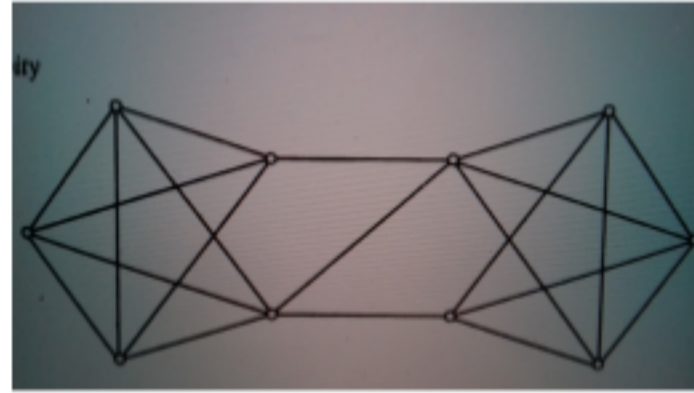
3) Let G be a simple graph with $\Delta(G) \leq 3$. Then 1 point

- $k(G) = k'(G)$
 $k(G) < k'(G)$
 $k(G) > k'(G)$
 no relation between $k(G)$ and $k'(G)$

No, the answer is incorrect.
Score: 0

Accepted Answers:
 $k(G) = k'(G)$

4) Consider the graph G shown below. Then $k(G) =$ 1 point



- 2
 3
 4
 1

No, the answer is incorrect.
Score: 0

Accepted Answers:
2

5) Consider the graph in Problem 4. $k'(G) =$ 1 point

- 2
 3
 4
 5

No, the answer is incorrect.
Score: 0

Accepted Answers:
3

6) Every 2-connected graph is 2-edge connected. 1 point

- True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
True

7) Every 2-edge-connected graph is 2-connected 1 point

- True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
False

8) Every graph with connectivity 5 is 5-connected. 1 point

- True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
True