



Course Materials

Assessments

Review Test Submission: Quiz #5 Su18

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User	Anil Coklar
Course	H_CST 211: Data Structures
Test	Quiz #5 Su18
Started	8/8/18 6:06 PM
Submitted	8/8/18 6:21 PM
Status	Completed
Attempt Score	Grade not available.
Time Elapsed	14 minutes out of 15 minutes
Results Displayed	All Answers, Submitted Answers, Correct Answers, Feedback, Incorrectly Answered Questions

Question 1

0 out of 10 points



What is the cost of finding the Minimum Spanning Tree (MST) of a graph?

Selected Answer: $O(n \log n)$ 

4.

Answers:

1.

 $O(1)$

2.

 $O(\log n)$

3.

 $O(n)$

4.

 $O(n \log n)$

5.

 $O(n^2)$

6.

 $O(n!)$

Question 2

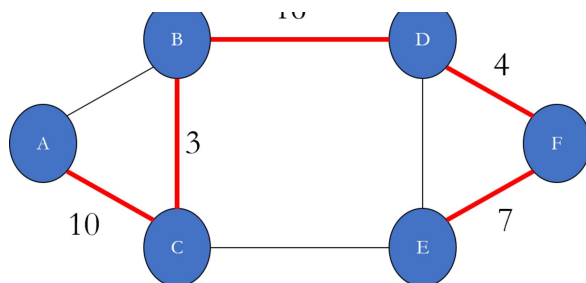
10 out of 10 points

The Minimum Spanning Tree (MST) of the graph contains the



edges { (A, C), (B, C), (B, D), (D,F), (E,F) } with the associated labeled weight edges. The MST weight sum is 40.

What is the minimum possible sum of **ALL** edges in this graph?



Selected Answer: ☒ 97

Answers: 96

☒ 97

98

95

Response The missing edges would be a minimum of +1 each over the current MST path for the
Feedback: MST to be true. Therefore, all all the edges up and you get 97.

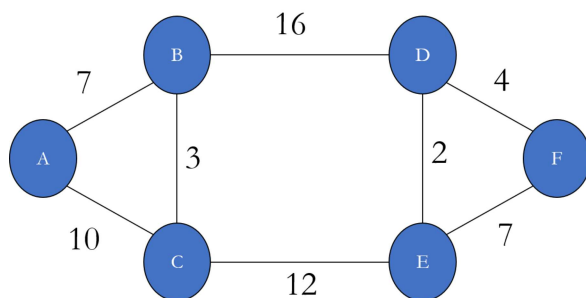
Question 3

40 out of 40 points



Find the minimum spanning tree (MST) of the following graph.

Select the edges that are part of this MST.



Selected Answers: ☒ (B, D)

☒ (A, B)

☒ (D, E)

☒ (D, F)

☒ (B, C)

☒ (C, E)

Answers: (B, D)

☒ (A, B)

(A, C)

(E, F)

☒ (D, E)

☒ (D, F)

☒ (B, C)



(C, E)

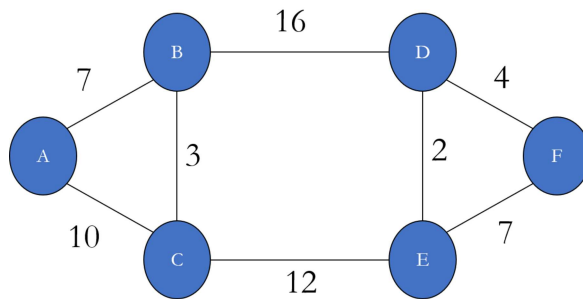
Response Feedback: { (A, B), (B, C), (C, E), (D,E), (D,F) }

Question 4

16 out of 40 points

Find the **maximum** spanning tree (MST) of the following graph.

Select the edges that are part of this MST.

☐ (D, E)☒ (C, E)☒ (B, D)

Answers: (B, C)

(D, E)

☒ (C, E)

(A, B)

☒ (E, F)☒ (A, C)☒ (D, F)☒ (B, D)

Wednesday, August 8, 2018 6:21:55 PM PDT

← OK

