

Max Marks: 10

Time Allowed: 30 minutes

Name: _____

ERP: _____

Question 1: 10 marks

Consider the graph below.

- [6 marks] When executing Kruskal's algorithm, what is the fifth edge that is chosen?, give a cut that justifies its addition.
- [2 marks] What is the total weight of minimum spanning tree in this graph?
- [2 marks] Does this graph have a unique minimum spanning tree? Explain briefly.

