

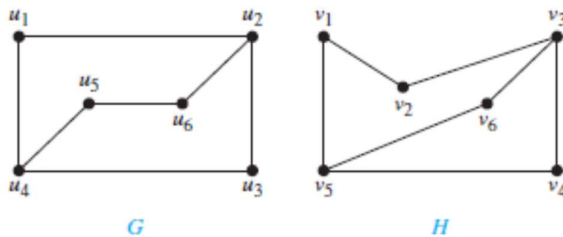
Quiz 2

Subject: Discrete Mathematics

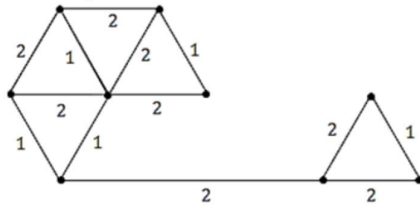
Total 25 marks

Date 24th Nov 2021

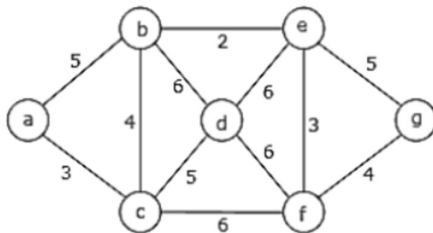
1. What is the maximum number of edges possible in a simple graph of order n ? Explain your answer. (5 M)
2. In a party of 27 persons, prove that someone must have an even number of friends assuming that friendship is mutual. (5 M)
3. Determine whether the graphs G and H displayed in Figure are isomorphic. (5 M)



4. How many numbers of distinct minimum spanning trees for the weighted graph below and why? (5 M)



5. Find the Minimum spanning tree using Kruskal's algorithm by consider the following graph below (5 M)



---Good Luck---