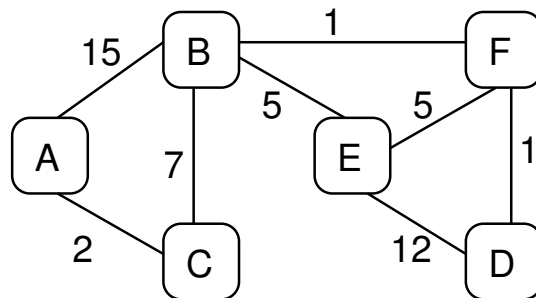


ITS323 – Quiz 5

Name: _____ ID: _____ Marks: _____ (10)

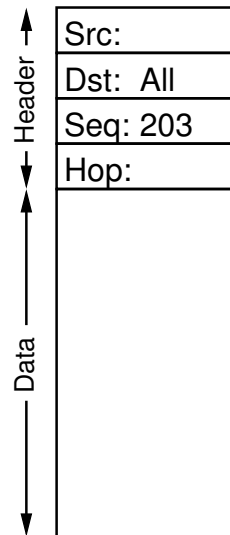
Question 1 [4 marks]

Consider the network below. Draw and complete the routing table for node E (you must include *cost* in the routing table as well as the other required information).



Question 2 [4 marks]

Assume link state routing is used in the network from Question 1. Each node informs all other nodes of the status of its links by sending a Link State Packet (LSP). The LSP contains a header and data. Complete the LSP that node D sends. The hop limit should be chosen as the smallest value such that all nodes will be reached.

**Question 3** [2 marks]

- (a) How many cables (links) are necessary in a ring topology LAN that has 25 computers?
- (b) What is a disadvantage of the topology in part (a) when compared to a mesh topology?