Sheet 6

1. Use the Dijkstra algorithm to find the shortest path from A to E in the network in Fig.1, Show the set of the weight and the parent node at each node after each step.
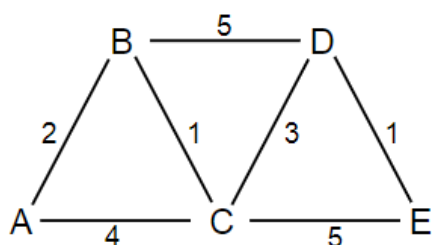

Figure 1

2. Consider the network of Fig.2. Suppose that it uses flooding as the routing algorithm. If a packet sent by A to D has a maximum hop count of 3, list all the routes it will use to deliver the message from A to D. Also tell how many hops worth of bandwidth it consumes.
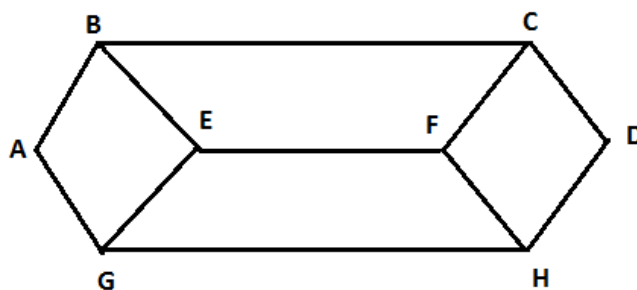

Figure 2