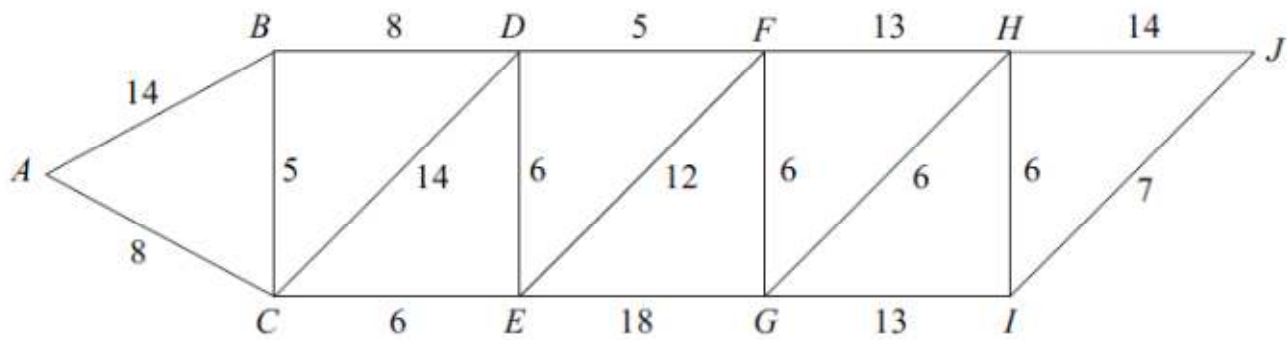


**Dijkstra's Algorithm Exam Question D1 (Jan '06)**

5 [Figure 1, printed on the insert, is provided for use in this question.]

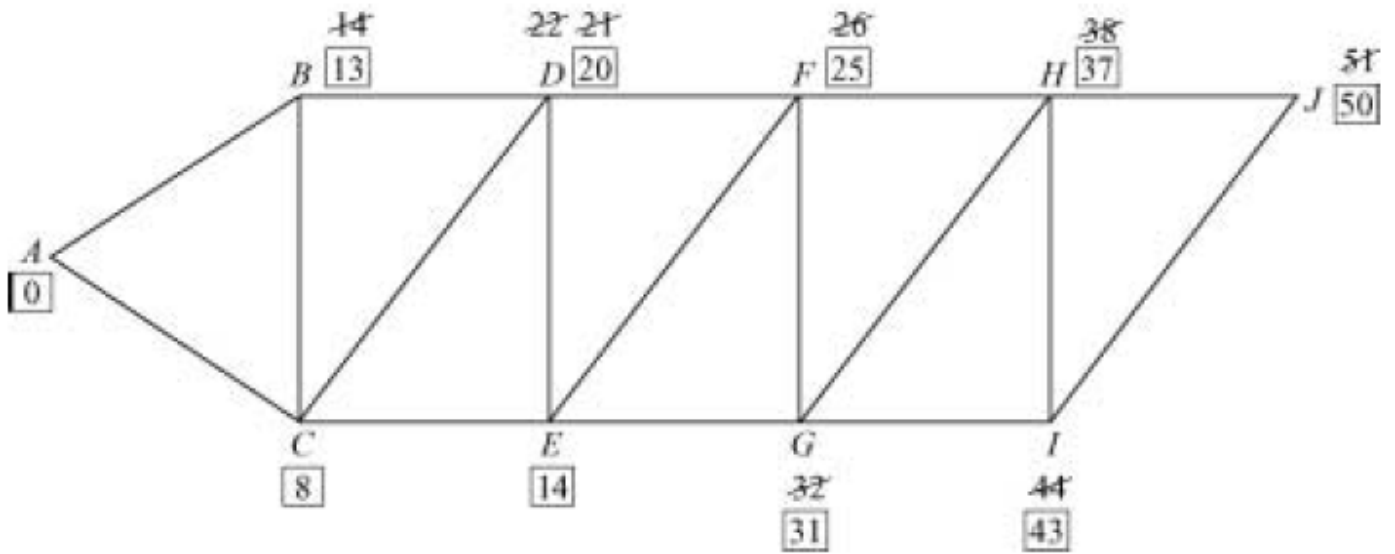
The network shows the times, in minutes, to travel between 10 towns.



- (a) Use Dijkstra's algorithm on **Figure 1** to find the minimum time to travel from *A* to *J*.  
(6 marks)
- (b) State the corresponding route.  
(1 mark)

# Dijkstra's Algorithm Exam Question Solution D1 (Jan '06)

5.  
a)



Minimum travel time: 50 minutes.

b)

Route: A C E D F G H I J