

ITS 323 – QUIZ 4 (ITA)

First name: _____ Last name: _____

ID: _____

Total Marks: _____

out of 10

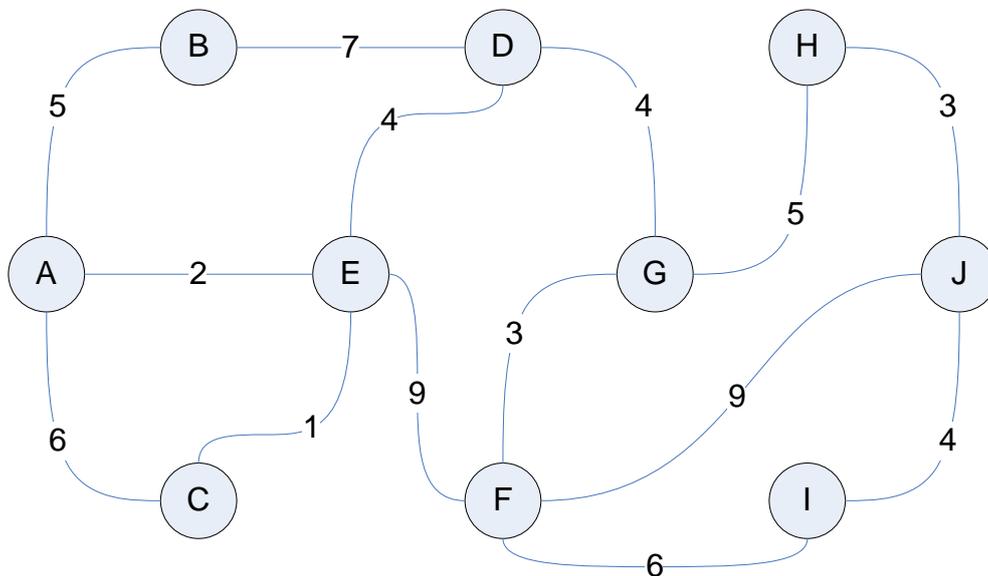
Question 1 [6 marks]

True or False:

- a) Statistical Time Division Multiplexing allocates time slots to users in a fixed order. T / F
- b) ADSL uses Frequency Division Multiplexing to combine voice and data traffic on a telephone line. T / F
- c) Frame Relay and the Internet Protocol both use virtual circuit packet switching. T / F
- d) Circuit switching networks are no longer in use today. T / F
- e) Datagram packet switching requires a header to be added to each packet; virtual circuit packet switching *does not* add a header to each packet. T / F
- f) An example of fairness in a routing algorithm is the algorithm reacting to congestion (overload) in the network and selecting new paths to reduce the load T / F

Question 2 [4 marks]

Consider the network below. For each link, the delay, in milliseconds, is shown. Assume the links are bi-directional, and the costs are identical in both directions.



- a) What is the least cost path from A to J if the metric is number of hops?

Path: _____

- b) What is the least cost path from A to J if the metric is delay?

Path: _____

