

ITS 323 – QUIZ 4 (ITB)

First name: _____ Last name: _____

ID: _____

Total Marks: _____

out of 10

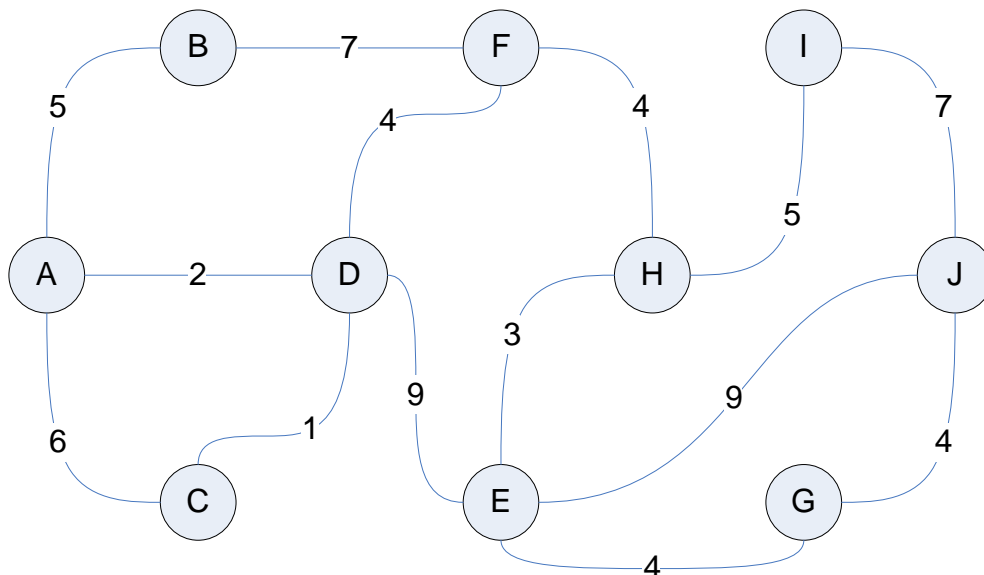
Question 1 [6 marks]

True or False:

- a) PDH, SDH and SONET are network technologies that use Synchronous Time Division Multiplexing T / F
- b) Frequency Division Multiplexing allows multiple users to use a single transmission link by allocating separate time slots to users. T / F
- c) X.25 and Frame Relay standardise transport layer protocols. T / F
- d) Circuit switching networks are no longer in use today. T / F
- e) Circuit switching requires a connection setup delay; virtual circuit packet switching does not require a connection setup delay. 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 [2 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: _____

