ITS 323 – QUIZ 4 ANSWERS

First name: _____   Last name: _____

ID: _____   Total Marks: _____

out of 5

Question 1 [5 marks]

a) Datagram packet switching was developed before circuit switching.

True   **False**

b) Virtual circuit packet switching was developed before circuit switching.

True   **False**

c) A circuit switch may also use TDM on an output line.

True   False

d) A switched network is always a fully connected network.

True   **False**

e) A switched network will always have more than one path from every source and destination pair.

True   **False**

f) The control unit of a circuit switch provides the connections between input and output lines.

True   **False**

g) A circuit switch can only have one connection passing through it at a time.

True   **False**

h) A datagram packet switch reserves resources when it receives a connection request packet.

True   **False**

i) A virtual circuit packet switch may reserve resources for a connection during connection setup.

True   False

j) Blocking is possible in circuit switched networks.

True   False

k) All circuit switched networks are non-blocking.

True   **False**

l) In a virtual circuit packet switching network, the source and destination must transmit/receive at the same speed (or data rate).

True   **False**

m) Guaranteed quality of service is an advantage of circuit switched networks.

True   False

n) The main factors contributing to delay in circuit switching are: transmission delay and propagation delay.

True   False

o) The main factors contributing to delay in circuit switching are: processing delay and propagation delay.

True   **False**

p) If a very small amount of data needs to be sent from source to destination, datagram packet switching will generally be faster than virtual circuit packet switching.

True   False

q) If a very small amount of data needs to be sent from source to destination, circuit switching will generally be faster than datagram packet switching.

True   **False**

r) Datagram packet switching uses headers; virtual circuit packet switching does not use headers.

True   **False**

s) Datagram packet switching uses headers; circuit switching does not use headers.

True   False

t) Packets may arrive at the destination out-of-order when using circuit switching.

True   **False**

u) Packets may arrive at the destination out-of-order when using virtual circuit packet switching.

True   **False**