Name   :
Course No   :   **CSCE101**

1   Part I: Matching and Multiple Choice (2 points each)

1. Which of the following is **not** an Internet software layer?

   (a) Transport
   (b) Link
   (c) Physical
   (d) Network
   (e) Application

2. Which of the following ways are used to classify networks:
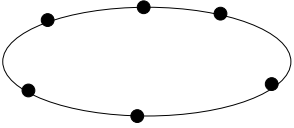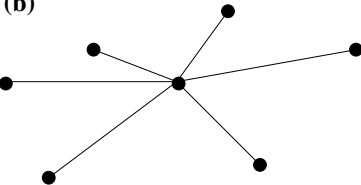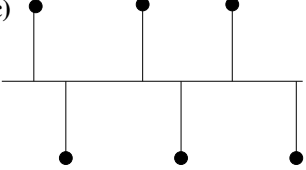
   (a) size
   (b) transmission media
   (c) communication models
   (d) all of the above
   (e) a and b only

3. Which of the following does **not** describe a network's size:

   (a) LAN: Local Area Network
   (b) MAN: Metropolitan Area Network
   (c) SAN: Small Area Network
   (d) WAN: Wide Area Network
   (e) All are descriptions of network sizes.

2 Part II: Short Answer

4. *(Topology = 2 points, adv./disadv. = 1 point each)* In the following picture, assume each black dot is a computer connected to a network, assuming the lines are the network wires. For each network, state the name of the physical topology that the network is in, and list one advantage and one disadvantage of each topology.

(a)	(b)	(c)
Topology: _____	**Topology:** _____	**Topology:** _____
Advantage:	**Advantage:**	**Advantage:**
Disadvantage:	**Disadvantage:**	**Disadvantage:**

5. *(2 points)* Again referring to the figure, what would you use to connect:

   (a) Two networks, both of which use topology (c).

   (b) Two networks, one that uses topology (b) and one that uses topology (c).