

Quiz 6

BASICS OF COMPUTING
(CSCE 101, SPRING 2007)

URL: <http://my.unl.edu>

19th April, 2007

(20 points)

Name :

Course No : **CSCE101**

1. (3 points) For each of the following ways to classify networks, give an example of one of the classifications.

(a) Example: Transmission Media – *Copper wire, Optical Fiber, Wireless*

(b) Size –

(c) Topology –

(d) Communication Model –

2. (3 points) For each of the network layers (Application, Transport, Network, Link), answer the following question:

- This layer routes packets to the correct location:
- The HTTP protocol is used by this layer:
- This layer uses the CSMA/CD or Token Ring protocol:

3. (2 points) Name two ways in which an algorithm can be represented.

(a)

(b)

7. (6 points) Given the following items:

$X = \{ 12, 43, 2, 5, 16, 27 \}$

$Y = \{ 23, 17, 1, 9, 5, 8 \}$

(a) Write a routine called **SWAP** that will allow the calling function (you) to switch elements between the lists **X** and **Y**. (*Hint: This will need 4 inputs: Two lists and two indices.*)

(b) In the following function, use your routine to place all numbers less than 10 into array **Y**, and all numbers greater than 10 into **X**.

```
STUDENT_SWAP(X, Y) {  
    // X, Y are lists as defined above.
```

```
}
```