

No.: _____

Name: _____

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Name: _____

**Computer Science
Homework for Chapter 4**

Due: 2010/4/21

8. In the following table, connect the term to each phrase that gives the best description of the term. (40%)

____1. Which of the following connects existing networks to form an internet?

- A. Bridge B. Router C. Switch D. Repeater

____2. Which layer of the TCP/IP hierarchy actually transmits a message?

- A. Application B. Transport C. Network D. Link

____3. Which layer of the TCP/IP hierarchy decides which application should receive an incoming message?

- A. Application B. Transport C. Network D. Link

____4. Which of the following identifies the application to which a message arriving from the Internet should be given?

- A. Protocol B. Port number C. Domain D. Hop count

____5. Which of the following is a protocol for controlling the right to transmit a message in a network?

- A. UDP B. CSMA/CD C. TCP D. FTP

____6. If the network identifier of a domain in the Internet is 115.48, how many unique IP addresses are available for identifying machines within the domain (assuming 32 bit addresses)?

- A. 4096 B. 16,384 C. 32,768 D. 65,536

7. What terms in the following HTML document are linked to other documents?

```
<html>
<head>
<title>This is the title</title>
</head>
<body>
<h1>Favorite Animals</h1>
<p>Of all the animals in the world, the
<a href="http://pigs.org/pigs.html">pig</a> is
perhaps the most charming.</p><p>However, the
<a href="http://hippopotamuscity.org/hippo.html">
hippopotamus</a> is also cute.</p>
</body>
</html>
```

Term	_____	Descriptive Phrase
Cloud	_____	A. A network of networks
URL	_____	B. A portion of the Internet
internet	_____	C. A governing set of rules
Packet	_____	D. The portion of the Internet lying outside one's domain
ISP	_____	E. Identifies a machine on the Internet
firewall	_____	F. A notational system for indicating how a Web document is to be displayed by a browser
XML	_____	G. A means of obtaining access to the Internet
FTP	_____	H. A means of blocking undesired messages
protocol	_____	I. A message segment that is transmitted over the Internet independently
dotted decimal	_____	J. A "format" for markup languages
domain	_____	K. A protocol for transferring files
search engine	_____	L. A means of connecting networks to form an internet
Ethernet	_____	M. A notational system for representing bit patterns
router	_____	N. A means of identifying a document on the Web
IP address	_____	O. A means of finding relevant information on the Web
HTML	_____	P. A means of implementing a network with the bus topology

ANSWER _____