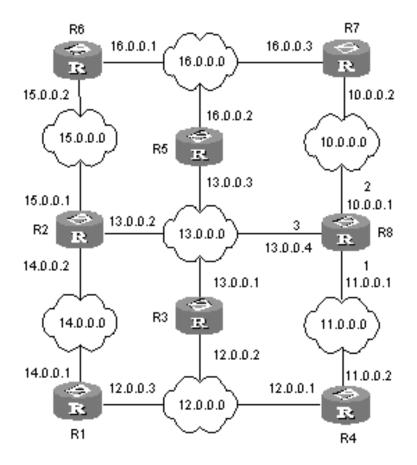


Midterm Username:

Student ID:

Subject: Computer Networks					
1. How long does it take a packet of 2,500 km, propagation speed 2.5 x a unit in answer)					
Answer:	-				
2. Suppose Host A wants to send a three links, of rates R1 = 500 kbps, F	•	n Host A to Host B has			
a. Assuming no other traffic in the n	etwork, which is the bottleneck l	link?			
b. Suppose the file is 4 Mbytes. Divi	,	ck link, roughly how			
c. Repeat (a) and (b), but now with F	R2 reduced to 100 kbps.				
Answer: 1) 2)	seconds. 3)	seconds.			
3. Worms need a host file to exploit	system. (True/False) :				
4. Which of the following is suitable	for sending data in form of light(photons)?			
a) Coaxial able					
b) Twisted pair cable					
c) Antenna					
d) Fiber optic cable					
5. "HTTP response messages never	have an empty body". (True/Fals	se):			



Routing table of router R8

-		
Destination network	Next hop	Interface
10.0.0.0	10.0.0.1	2
11.0.0.0	11.0.0.1	1
12.0.0.0	11.0.0.2	1
13.0.0.0	13.0.0.4	3
14.0.0.0	13.0.0.2	3
15.0.0.0	13.0.0.2	3
16.0.0.0	10.0.0.2	2

Based on routing table, packet is sent via interface #_____ if the destination IP is 16.0.0.25

- 7. Which of the following guarantees a specific bandwidth in a connection?
- a) Packet Switching
- b) Circuit Switching
- c) Vanilla TCP
- d) TCP CUBIC
- 8. Name 2 common philosophies CDNs adopt for different server placement.

Answer: ,	
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9. Which of the following HTTP response code means the requested object is moved to a different location?
a) 301
b) 200
c) 505
d) 400
10. Which of the following is the centerpiece in 'Conditional GET' method used in web caching?
a) If-None-Match b) If-Modified-Since c) Accept-Encoding d) Content-Type
11. ".org" falls under which of the following domain categories?
a) Local
b) root
c) Authoritative
d) Top-Level Domain (TLD)
12. If the TCP server were to support 'n' simultaneous connections, each from a different client host, how many sockets would the TCP server need? (Hint: Welcoming socket concept)
Answer:
13. Host A is sending Host B a large file over a TCP connection. Assume Host B has no data to send Host A. Host B will not send acknowledgments to Host A because Host B cannot piggyback the acknowledgments on data. (True/False)

14. what	t does '*'	in belo	w 'tracert' result mean?
24 ms	24 ms	24 ms	154. 11. 2. 81
24 ms	23 ms	23 ms	ae-9. a03. sttlwa01. us. bb. gin. ntt. net [168. 143. 191. 134]
34 ms	*	24 ms	ae-3. r25. sttlwa01. us. bb. gin. ntt. net [129. 250. 2. 206]
Answer:			
Host A a	nd Host	B each	n Host C has a TCP socket with port number 6789. Suppose both send a TCP segment to Host C with destination port number 6789. be directed to the same socket at Host C. (True/False):
16. In rd handle :	•	ol(one t	hat we made similar to TCP), we introduced the concept of timer to
a) Error			
b) Seque	ence nun	nber	
c) Dupli	cate Pacl	ket	
d) Packe	et loss		
	•		ne following three bytes: 01010011, 01100110, 01110100. What is lement) of the sum of these bytes?

ROUGH WORK