Network Architectures	$\bf 3329$	(5503)
Spring 2018		
03/16/18		

Name:

Time Limit: 5 minutes

**Quiz 8-1** 

## • Print your name.

- Close-book policy: You may not use the text, my class notes and/or any notes and study guides you have created. You may use a calculator. You may not use a cell phone or computer.
- When you have completed your quiz, hand it to me and go have a great weekend!

Problem	Points	Score
1	1	
2	1	
3	1	
4	1	
5	1	
Total:	5	

- 1. (1 point) The primary functions of the network layer include
  - A. move traffic from sending host to a receiving host
  - B. forward traffic from a router's input link to its output link
  - C. coordinate the forwarding action of each router
  - D. all of the above
- 2. (1 point) Network layer protocols can run in
  - A. every host
  - B. every router
  - C. the network edge and core
  - D. all of the above
- 3. (1 point) The forwarding tables that determines the forwarding behavior of a router can only be configured by a routing protocol.
  - A. True B. False
- 4. (1 point) With longest prefix matching (the forwarding table is shown in the below), a packet with destination address 11001000 00010111 00010110 10100001 will be forwarded to link interface
  - **A. 0** B. 1 C. 2 D. 3

Prefix Match	Link Interface	
11001000 00010111 00010	0	
11001000 00010111 00011000	1	
11001000 00010111 00011	2	
otherwise	3	

Figure 1: Forwarding table (with longest prefix matching) for question 4

- 5. (1 point) A router's switching fabric is almost always implemented in hardware whereas the management and control plane are usually implemented in software.
  - **A. True** B. False