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CS-GY 6843 COMPUTER NETWORKING, Section CF >   Tests & Quizzes

## Tests & Quizzes

### Midterm CF 2019


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Part 1 of 8 - Part 1

5.0/ 10.0 Points

Question 1 of 19


In Store-and-forward transmission, the packet switch does not wait to receive an entire packet before it begins to transmit first bit of the packet on the outbound link 5.0/ 5.0 Points

-  ☐ True  
☐ False

**Answer Key:** False

Question 2 of 19

Before sending a packet into a datagram network, the source must determine all of the links that packet will traverse between source and destination. 0.0/ 5.0 Points

-  ☐ True  
☐ False


**Answer Key:** False

Part 2 of 8 - part 2

5.0/ 10.0 Points

Question 3 of 19

Popular messaging apps like Whatsapp, facebook messenger, Snapchat and WeChat use the same protocols as SMS. 0.0/ 5.0 Points

-  ☐ True  
☐ False

**Answer Key:** False

Question 4 of 19

E-commerce websites use cookies to maintain shopping cart record for each of its customers while the session is active

5.0/ 5.0 Points

- ✓ ☐ True  
☐ False

**Answer Key:** True

Part 3 of 8 - part 3

10.0/ 10.0 Points

Question 5 of 19

Since UDP is a connectionless protocol, there is no checksum field in the UDP header

5.0/ 5.0 Points

- ✓ ☐ True  
☐ False

**Answer Key:** False

Question 6 of 19

If the client and server are using persistent HTTP, then throughout the duration of the persistent connection the client and server exchange HTTP messages via the same server socket.

5.0/ 5.0 Points

- ✓ ☐ True  
☐ False

**Answer Key:** True

Part 4 of 8 - Part 4

10.0/ 10.0 Points

Question 7 of 19

Which TCP/IP layer handles the reliability and congestion control

5.0/ 5.0 Points

- ✓ ☐ A. Transport layer
- ✓ ☐ B. Application layer
- ✓ ☐ C. Network layer
- ✓ ☐ D. Physical layer

**Answer Key:** A

Question 8 of 19

Which layer is responsible for encapsulating data into segments?

5.0/ 5.0 Points

- ☒ A. Transport layer
- ☒ B. Link layer
- ☒ C. Physical layer
- ☒ D. Network layer

**Answer Key:** A

Part 5 of 8 - part 5

10.0/ 10.0 Points

Question 9 of 19

Which of the architecture is used by DNS?

5.0/ 5.0 Points

- ☒ A. A distributed and hierarchical architecture
- ☒ B. peer-to-peer architecture
- ☒ C. client-server architecture
- ☒ D. None of the above

**Answer Key:** A

Question 10 of 19

In which of the layer, peer-to-peer systems and overlay networks are implemented?

5.0/ 5.0 Points

- ☒ A. Application layer
- ☒ B. Link layer
- ☒ C. Physical layer
- ☒ D. Network layer

**Answer Key:** A

Part 6 of 8 - part 6

5.0/ 10.0 Points

Question 11 of 19

When a UDP segment arrives at a host, in order to direct the segment to the appropriate socket, the OS uses

0.0/ 5.0 Points

- ☒ A. The destination port number
- ☒ B. The source IP address
- ☒ C. The source port number
- ☒ D. All of the above

**Answer Key:** A

Question 12 of 19

Which TCP/IP layer handles reliability, error and congestion control

5.0/ 5.0 Points

- ☒ A. Transport layer
- ☒ B. Application layer
- ☒ C. Network layer
- ☒ D. Physical layer

**Answer Key:** A

Part 7 of 8 - part 7

10.0/ 10.0 Points

Question 13 of 19

10.0/ 10.0 Points

Match the following OSI model layers with correct PDUs

A. Message

B. Packets

C. Datagram / segments

D. Frame

- ✓  1. Application layer
- ✓  2. Transport layer
- ✓  3. Network layer
- ✓  4. Link Layer

**Answer Key:** 1:A, 2:C, 3:B, 4:D

Part 8 of 8 - Compulsory questions

25.0/ 30.0 Points

Question 14 of 19

5.0/ 5.0 Points

Suppose there is a 10 Mbps microwave link between a geostationary satellite and its base station on Earth. Every minute the satellite takes a digital photo and sends it to the base station. Assume a propagation speed of  $2.4 \times 10^8$  m/s and the distance between satellite and station is  $3.6 \times 10^7$  m.

**What is the propagation delay of the link?**

- ✓ ☐ A. 3.6 seconds
- ✓ ☐ B. 37.19 seconds
- ✓ ☐ C. 0.15 seconds
- ✓ ☐ D. Insufficient data

**Answer Key:** C

Question 15 of 19

5.0/ 5.0 Points

Suppose there is a 10 Mbps microwave link between a geostationary satellite and its base station on Earth. Every minute the satellite takes a digital photo and sends it to the base station. Assume a propagation speed of  $2.4 \times 10^8$  m/s and the distance between satellite and station is  $3.6 \times 10^7$  m

**What is the bandwidth-delay product,  $R \times d_{\text{prop}}$  ?**

- ✓ ☐ A.  $10^7$  bits

- ☒ ☐ B.  $10^6$  bits
- ☒ ☐ C.  $1.5 \times 10^6$  bits
- ☒ ☐ D.  $3.6 \times 10^7$  bits

**Answer Key:** C

Question 16 of 19

0.0/ 5.0 Points

**The text below shows a reply sent from a server in response to the HTTP GET message. Answer the following questions based on the content present in this reply.**

```
HTTP/1.1 200 OK
Date: Tue, 07 Mar 2008 12:39:45GMT
Server: Apache/2.0.52 (Fedora)
Last-Modified: Sat, 10 Dec2005 18:27:46 GMT
ETag: "526c3-f22-a88a4c80"
Accept-Ranges: bytes
Content-Length: 3874
Keep-Alive: timeout=max=100
Connection: Keep-Alive
Content-Type: text/html; charset=ISO-8859-1
<!doctype html public "-//w3c//dtd html 4.0 transitional//en">
<html>
<head> <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<meta
name="GENERATOR" content="Mozilla/4.79 [en] (Windows NT5.0; U)
Netscape]">
<title>CMPSCI 453 / 591 /NTU-ST550A Spring 2005 homepage</title>
</head>
```

**Q1. What are the first 5 bytes of the document being returned?**

- ☒ ☐ A. <html
- ☒ ☐ B. name=
- ☒ ☐ C. <!doc
- ☒ ☐ D. HTTP/

**Answer Key:** C

Question 17 of 19

5.0/ 5.0 Points

**The text below shows a reply sent from a server in response to the HTTP GET message. Answer the following questions based on the content present in this reply.**

```
HTTP/1.1 200 OK
Date: Tue, 07 Mar 2008 12:39:45GMT
Server: Apache/2.0.52 (Fedora)
Last-Modified: Sat, 10 Dec2005 18:27:46 GMT
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<meta
name="GENERATOR" content="Mozilla/4.79 [en] (Windows NT5.0; U)
Netscape]">
<title>CMPSCI 453 / 591 /NTU-ST550A Spring 2005 homepage</title>
</head>
```

**Which of the following field in the above reply indicates that the server has agreed to a persistent connection?**

- ☒ A. HTTP/1.1 200 OK
- ☒ B. Connection: Keep-Alive
- ☒ C. Last-Modified: Sat, 10 Dec 2005 18:27:46 GMT
- ☒ D. Content-Type: text/html

**Answer Key:** B

Question 18 of 19

**Suppose you have the following 2 bytes: 01011100 and 01100101. What is the 1's complement of the sum of these 2 bytes?**

5.0/ 5.0 Points

- ✓ ☐ A. 11000001
- ✓ ☐ B. 00111110
- ✓ ☐ C. 01000010
- ✓ ☐ D. 01011100

**Answer Key:** B

Question 19 of 19

**Suppose you have the following 2 bytes: 11011010 and 01100101. What is the 1's complement of the sum of these 2 bytes?**

5.0/ 5.0 Points

- ✓ ☐ A. 10111111
- ✓ ☐ B. 01000000
- ✓ ☐ C. 01000010
- ✓ ☐ D. 01011100

**Answer Key:** A

Timezone: America/New\_York

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## Change Profile Picture

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Upload  No file chosen



**Connections**

[Remove](#)

[View More](#)

**My Connections**

Pending Connections

You don't have any connections yet. Search for people above to get started.

You have no pending connections.

[←Back to My Connections](#)

`${cmLoader.getString("connection_manager_no_results")}`