

Quiz1

1. When every machine in a network can act as both a client and a server, what is the network model called?

Select one:

- a. cloud computing
- b. peer-to-peer
- c. client-server
- d. distributed

2. What network succeeded ARPANET?

Select one:

- a. TELNET
- b. EuropaNET
- c. EBONE
- d. DARPANET
- e. NSFNET

3. Which of the following protocols are in the transport layer of the TCP/IP reference model.

Select one:

- a. TCP and UDP
- b. TCP, IP and IPsec
- c. TCP and IP
- d. TCP and DNS
- e. TCP and HTTP
- f. TCP and ARP



4. Select the OSI layer that establishes and maintains a logical connections between application programs on different computers.

Select one:

- a. Data Link Layer

- b. Network Layer
- ~~c. Application Layer~~
- d. Transport Layer
- e. Physical Layer
- f. Session Layer
- g. Presentation Layer

5. A root name server supports ... queries.

Select one:

- a. distributed
- b. recursive
- c. iterative
- d. peer-to-peer

6. What is the IP address of anu.edu.au?

Select one:

- a. 130.23.175.23
- b. 130.56.60.81
- c. 130.227.83.103
- d. 130.154.13.219

7. What is the domain name of an authoritative name server for www.wikimedia.org?

Select one:

- a. ns1.wikipedia.org
- b. ns0.wikipedia.org
- c. ns0.www.wikipedia.org
- d. ns1.wikimedia.org



8. What does the BSSID field in a wireless network represent?

Select one:

- a. network identification
- b. relative signal strength

c. access point address

Quiz2

1. Select one advantage of using a reverse proxy.

Select one:

- a. Can be used for load balancing.
- b. Can prevent tracking of clients.
- c. Can be used for hiding IP addresses of clients.



2. How does a router decide on which output line (or network interface) a particular packet is to be sent?

Select one:

- a. Uses the routing table IP packet header, and frame header.
- b. Uses the routing table and frame header.
- c. Uses the routing table and ignores headers.
- d. Uses the routing table and IP packet header.

3. What is an advantage of RTP over UDP for VOIP communication?

Select one:

- a. Reduced network traffic
- b. Compression
- c. Multicasting
- d. Sequencing

4. Give an example of a wireless technology used for Personal Area Networks.

Select one:

- a. Near Field Communications
- b. Bluetooth
- c. WiMAX
- d. Acoustic coupling

5. Which device is used to connect computers to each other on the same LAN (e.g., on your home network).

Select one:

- a. Switch
- b. Access point
- c. Gateway
- d. Router

Feedback



6. When you use a browser to access your mail from your gmail or hotmail account, what is the application layer protocol used for transferring information between your browser and the Web server?

Select one:

- a. HTTP
- b. IMAP
- c. POP
- d. ~~SMTP~~

7. What is meant by pipelining, in the context of HTTP?

Select one:

- a. Clients can open multiple connections and the server concurrently handles them.
- b. Clients can issue multiple requests and the server responds to each as soon as it is ready.
- c. Clients can only make one request at a time. The server has to supply a response before the client can make a new request.
- d. Clients can only open one connection at a time. The current connection has to be closed before a new one can be made.

Quiz3

1. Select technical concerns about P2P (multiple selections possible).

Select one or more:

- a. Address volatility
- b. Single point of failure
- c. Chokepoints
- d. Bottlenecks
- e. Over-grazing

2. Select cloud reliability issues that have been reported over the last few years (multiple selections possible).

Select one or more:

- a. Lack of central control
- b. Scalability
- c. Outages
- d. Address volatility
- e. Safeguards

3. As defined in Roger's slides, which of the following is not a typical social media activity?

Select one:

- a. Multicasting
- b. Broadcasting
- c. Collaboration
- d. Interaction

4. Select all threats to your passwords (multiple selections possible).

Select one or more:

- a. Phishing
- b. Guessing
- c. Interception
- d. Forgetting

5. What is an example of a DoS Attack?

Select one:

- a. Network throttling

- b. Blocking of traffic
- c. Many pings
- d. Network upscaling

6. In relation to your use of mobile devices, identify all Safeguards you can use to protect the Security of your personal data and your funds (multiple selections possible).

Select one or more:

- a. Encryption
- b. Access control
- c. Malware detection
- d. Patching
- e. Training

Quiz4



1. In the ACS Code of Ethics, which among the following has the lowest priority?

Select one:

- a. Competence
- b. Confidentiality
- c. Integrity
- d. The image of the profession and the society

2. An example of a passive attack is:

Select one:

- a. Denial of service
- b. Traffic analysis
- c. Replay



3. Hashing a message provides the following service:

Select one:

- ~~a. confidentiality~~

b. authentication

c. integrity



4. When signing a message using RSA, which key is used?

Select one:

a. receiver's private key

b. receiver's public key

c. sender's private key

d. sender's public key

5. How many keys are used in a symmetric key algorithm?

Answer: 1

6. An example of an asymmetric key algorithm is:

Select one:

a. AES

b. RSA

c. SHA1

d. DES

7. How many bits are in a DES block?

Select one:

a. 128 bits

b. 96 bits

c. 56 bits

d. 32 bits

e. 64 bits

8. When encrypting a message using RSA, which key is used?

Select one:

a. receiver's public key

b. sender's private key

c. receiver's private key

d. sender's public key

Feedback

9. When decrypting an encrypted message using RSA, which key is used?

Select one:

- a. sender's public key
- b. sender's private key
- c. receiver's public key
- d. receiver's private key

Quiz5



1. Someone who discovers unprotected access points, but does nothing else is a:

Select one:

- a. drive-by hacker
- b. war driver

2. In small businesses, typically, the following 802.11i mode of operation is used:

Select one:

- a. 802.1X
- b. Pre-Shared Key (PSK)

3. Which of the following Wi-Fi bands is less prone to interference from microwave ovens and cordless phones?

Select one:

- a. 5 GHz
- b. 2.5 GHz

4. In CSMA/CA, if a frame is not acknowledged, it is:

Select one:

a. retransmitted

b. skipped



5. Which of the following application layer protocols uses UDP as the transport layer protocol?

Select one:

a. DNS

b. HTTP TCP

c. IMAP

d. SMTP

6. A router typically operates at which of the following network layers:

Select one:

a. Physical

b. Transport

c. Application

d. Internet

e. Data link

7. A TCP opening handshake is:

Select one:

a. two way

b. four way

c. three way

d. five way

8. If the IP address of a host is given by 150.203.164.35/8, what is the network part of the address?

Select one:

~~a. 150.203.164~~

b. 164.35

c. 150.203

d. 35

e. 203.164.35

f. 150

g. 150.203.164.35



9. Name one possible application of passive RFID tags.

Select one:

a. building (door) entry control

b. sharing webpages between mobile devices

c. opening car doors