Started on	Saturday, 16 March 2019, 3:27 PM
State	Finished
Completed on	Saturday, 16 March 2019, 3:29 PM
Time taken	1 min 55 secs
Marks	11.00/11.00
Grade	**10.00** out of 10.00 (**100**%)

Question **1**

Correct

Mark 1.00 out of 1.00

HTTP belongs to

Select one:

- a. Transport layer
- b. Application layer ✓
- c. Network layer
- d. Physical layer

Your answer is correct.

The correct answer is: Application layer

Question **2**

Correct

Mark 1.00 out of 1.00

In the Internet, which layer has only one choice of protocol

Select one:

- a. Physical
- b. Network ✓
- c. Transport
- d. Application

Your answer is correct.

The correct answer is: Network

Question **3**

Correct

Mark 1.00 out of 1.00

Which layer is NOT implemented in Internet routers

Select one:

- a. Physical
- b. Data link
- c. Network
- d. Transport ✓

Your answer is correct.

The correct answer is: Transport

Question **4**

Correct

Mark 1.00 out of 1.00

Do a quick search on the Internet on "firewall" (some information about firewall is also available in your text on page 376, 7th Ed., for example). Why do you think that firewall violates the layering principle?

Select one:

- a. It inspects the payload of IP datagrams (IP packets)
- b. it allows an intermediate network entity, i.e., a router, to inspect the payload of IP datagrams (IP packets) ✓
- c. It inspects the payload of TCP segments (TCP packets)

Your answer is correct.

The correct answer is: it allows an intermediate network entity, i.e., a router, to inspect the payload of IP datagrams (IP packets)

Question **5**

Correct

Mark 1.00 out of 1.00

Find about about "TCP Splitting" from the Internet. Your text also contains some information about TCP Splitting on page 303, 7th Ed., for example. What is the motivation for TCP Splitting to break the layering principle?

Select one:

- a. Security
- b. Performance in terms of reducing the packet header size
- c. Performance in terms of reducing the end-to-end delay ✓
- d. Performance in terms of reducing the queueing delay in the routers

Your answer is correct.

The correct answer is: Performance in terms of reducing the end-to-end delay

Question **6**

Correct

Mark 1.00 out of 1.00

Network applications run on

Select one:

- a. network core devices, such as routers and switches
- b. end hosts, such as smartphones and desktops ✓
- c. access routers or gateways, such as wireless routers
- d. all of the above

Your answer is correct.

The correct answer is: end hosts, such as smartphones and desktops

Question **7**

Correct

Mark 1.00 out of 1.00

If two processes on the same machine want to communicate with each other, they

Select one:

- a. must send messages to each other
- b. do not have send messages to each other, but can simply share some common memory space within the same machine ✓
- c. must use TCP
- d. could use FTP

Your answer is correct.

The correct answer is: do not have send messages to each other, but can simply share some common memory space within the same machine

Question **8**

Correct

Mark 1.00 out of 1.00

The application developer must choose the maximum segment size of TCP if he/she chooses to use a TCP socket.

Select one:

- True
- False ✓

The correct answer is 'False'.

Question **9**

Correct

Mark 1.00 out of 1.00

The client process must use a well-known port number for its socket.

Select one:

- True
- False ✓

The correct answer is 'False'.

Question **10**

Correct

Mark 1.00 out of 1.00

To send the number 256, HTTP will consume

Select one:

- a. 1 byte
- b. 2 bytes
- c. 3 bytes ✓
- d. 4 bytes

Your answer is correct.

The correct answer is: 3 bytes

Question **11**

Correct

Mark 1.00 out of 1.00

We could achieve some of the things achieved with cookies today if HTTP was 'stateful' (i.e., NOT stateless).

Select one:

- True ✓
- False

The correct answer is 'True'.