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## Self Assessments

### Chapter 3

#### Part 1 of 1 -

**14.0 / 25.0 Points**

##### Question 1 of 26

1.0 / 1.0 Points

TCP/IP - a suite of protocols that includes protocols such as TCP, IP, UDP and ARP.

- A. True
- B. False

**Answer Key:** True

##### Question 2 of 26

1.0 / 1.0 Points

OSI model has seven layers

- A. True
- B. False

**Answer Key:** True

##### Question 3 of 26

1.0 / 1.0 Points

In the OSI model, \_\_\_\_\_ is the 3rd layer.

- A. Physical layer
- B. Transport layer
- C. Network layer
- D. Session

**Answer Key:** C

##### Question 4 of 26

1.0 / 1.0 Points

In the OSI model, \_\_\_\_\_ is the seventh layer.

- A. Application layer
- B. Presentation
- C. Session
- D. Transport

**Answer Key:** A

##### Question 5 of 26

0.0 / 1.0 Points

What do we call a device that allows two or more networks or multiple parts of one network to connect and exchange data?  Router .

**Answer Key:** Connectivity device

##### Question 6 of 26

1.0 / 1.0 Points

Tcp operates in the Transport layer of OSI model.

**Answer Key:** TCP

##### Question 7 of 26

1.0 / 1.0 Points

TCP segment consists of:-

- A. TCP header
- B. Data
- C. Destination port
- D. A and B

**Answer Key:** D

0.0/ 1.0 Points

**Question 8 of 26**

The UDP header contains these fields; source port, destination port, length and checksum.

- A. True  
 B. False

**Answer Key:** True**Question 9 of 26**

Checksum field in UDP is required in IPv4, but optional in IPv6

- A. True  
 B. False

**Answer Key:** False**Question 10 of 26**IP operates at the ~~X~~Network of the OSI model.

0.0/ 1.0 Points

**Answer Key:** Network layer**Question 11 of 26**

TCP/IP is a connectionless protocol.

1.0/ 1.0 Points

- A. True  
 B. False

**Answer Key:** False**Question 12 of 26**IP depends on ~~X~~Tcp to ensure data packets are delivered to the right address

0.0/ 1.0 Points

**Answer Key:** TCP**Question 13 of 26**

Flags and Source IP address as some of the fields found in IPv4 Packets.

1.0/ 1.0 Points

- A. True  
 B. False

**Answer Key:** True**Question 14 of 26**

How many field does an IPv6 packet contain?

0.0/ 1.0 Points

- A. 2  
 B. 9  
 C. 6  
 D. 8

**Answer Key:** B**Question 15 of 26**

The length of a flow label in an IPv6 packet is:

0.0/ 1.0 Points

- A. 20 bits  
 B. 16 bits  
 C. 8 bits  
 D. 4 bits

**Answer Key:** A**Question 16 of 26**

ICMP is a Transport layer core protocol that reports one the success or failure of data delivery

1.0/ 1.0 Points

- A. True  
 B. False

**Answer Key:** True**Question 17 of 26**

Internet Control Message Protocol correct errors it detects

0.0/ 1.0 Points

- A. True  
 B. False

**Answer Key:** True

**Question 18 of 26**

Firewall uses IGMP to determine which nodes belong to a certain multicast group

0.0/ 1.0 Points

- A. True  
 B. False

**Answer Key:** False

**Question 19 of 26**

Address resolution protocol is a Layer 2 protocol that uses IP in Layer 3 and it operates only within its local network

Hint: use full name not acronym.

1.0/ 1.0 Points

**Answer Key:** Address Resolution Protocol

**Question 20 of 26**

Which statement is False about routers?

0.0/ 0.0 Points

- A. Prevents certain types of traffic from getting to a network  
 B. Supports asynchronous local and remote connectivity  
 C. Provides high network fault tolerance through redundant components such as power supplies  
 D. Diagnoses internal or other connectivity problems and trigger alarms

**Answer Key:** B

**Question 21 of 26**

IS-IS used by interior routers and border routers within autonomous systems and are often grouped according to the algorithms they use to calculate best paths.

Hint: Use acronym upper cases

0.0/ 1.0 Points

**Answer Key:** IGP

**Question 22 of 26**

Which of the following statements are TRUE about Open Shortest Path First (OSPF).

1.0/ 1.0 Points

- A. Introduced as an improvement to RIP.  
 B. Uses a more complex algorithm for determining best paths.  
 C. Requires more memory and CPU power than RIP, but keeps network bandwidth to a minimum .  
 D. All of the above

**Answer Key:** D

**Question 23 of 26**

netstat - displays TCP/IP statistics and details about IP components/connections on a host

0.0/ 1.0 Points

- A. True  
 B. False

**Answer Key:** False

**Question 24 of 26**

NetBIOS is a Linux protocol that was once an alternative to TCP/IP

1.0/ 1.0 Points

- A. True  
 B. False

**Answer Key:** False

**Question 25 of 26**

Linux, UNIX, Windows and OS X system use the traceroute utility to send UDP messages to a random port on the destination node (concept is the same as tracert)

0.0/ 1.0 Points

- A. True  
 B. False

**Answer Key:** False

**Question 26 of 26**

1.0/ 1.0 Points

pathping is a Windows utility that combines elements of both ping and tracert to provide deeper information about network issues along a route

- A. True  
 B. False

**Answer Key:** True

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myUnisa - myUnisa - Sakai 10.5 (Kernel 10.5) - Server lmkn-mtc21pv.int.unisa.ac.za

Server Time: **Wed, 09 May 2018 08:29:05 SAST**