



## Computer Networks: Quiz 1

Total points 7/14

Sunday, October 21, 2018 - 9:00 PM - 9:35 PM  
Time: 35 minutes

Email address \*

Section score 0/0

Your full name in Arabic \*

**Part I**

Pickup ONE correct answer.

Section score 34/42

**✗ IEEE 802.12 is a standard for:** 0/2

WSN  
 WiMax  
 None of the choices  
 LAN

Correct answer  
 None of the choices

**✓ Repeater operates in which layer of OSI model?** 2/2

Physical layer  
 Transport layer  
 Data link layer  
 Network layer

**✓ The physical layer is responsible for the transmission of \_\_\_\_\_ over the physical medium.** 2/2

segments  
 bits  
 messages  
 packets

**✓ The number of oscillations per second of a wave is called its \_\_\_\_\_.** 2/2

Wavelength  
 Spectrum  
 Frequency  
 Sequence

**✓ Network of networks is known as:** 2/2

WAN  
 Intranet  
 LAN  
 Internet

**✗ Baud means** 0/2

The number of bits transmitted per unit time.  
 None of the choices  
 The rate at which the signal changes.  
 The number of bytes transmitted per unit time.

Correct answer  
 None of the choices

**✓ When a packet with the code is transmitted, it is received and processed by every machine on the network. This mode of operation is called:** 2/2

Broadcasting  
 Point-to-point  
 Multicasting  
 Unicasting

**✓ The commonly used protocol for webpage transfer is \_\_\_\_\_.** 2/2

WML  
 HTML  
 HTTP  
 WHTTP

**✓ Protocols are** 2/2

None of the choices  
 Logical communication channels for transferring data.  
 Agreements on how communication components and terminals are to communicate.  
 Physical communication channels used for transferring data.

**✓ Which of the following devices is a PC component that connects the computer to a network?** 2/2

NIC  
 Bridge  
 Gateway  
 DNS server

**✓ Each IP packet must contain:** 2/2

Source address  
 Source and destination address  
 None of the choices  
 Destination address

**✓ Loss in signal power as light travels down the fiber is called** 2/2

Scattering  
 Propagation  
 Interruption  
 Attenuation

**✓ ISM is:** 2/2

Industrial Scientific Medical.  
 Infinite Security Model.  
 Insecure Subscriber Module.  
 Intense Search Mode.

**✓ The application layer of a network \_\_\_\_\_.** 2/2

allows communication channel to be shared  
 defines the users port into the network  
 establishes, maintains and terminates virtual circuits  
 consists of software being run on the computers connected to the network

**✓ The SONET effective bandwidth of transmission is:** 2/2

97.67%  
 98.67%  
 96.67%  
 95.67%

**✓ FDM and TDM are characterized by:** 2/2

FDM is an analog technique.  
 FDM is a digital technique.  
 TDM is an analog technique.  
 None of the choices

**✓ ADSL is the abbreviation of \_\_\_\_\_.** 2/2

Asymmetric Digital Subscriber Line  
 Asymmetric Dual Subscriber Line  
 Asynchronous Digital System Line  
 Asynchronous Dual System Line

**✗ \_\_\_\_\_ layer decides which physical path the data should take.** 0/2

Transport layer  
 Data link layer  
 Physical layer  
 Network layer

Correct answer  
 Network layer

**✓ 4 orders of magnitude higher means:** 2/2

10,000 times higher.  
 10 times higher.  
 100 times higher.  
 1000 times higher.

**✓ Communication via circuit switching involves three phases which:** 2/2

Circuit establishment, data compression, circuit disconnect.  
 Data transfer, data compression, circuit disconnect.  
 Circuit establishment, data transfer, circuit disconnect.  
 Circuit establishment, data compression.

**✗ Compared to ADSL, in cable TV transmission:** 0/2

Transmission does not stop at power outages.  
 Security is a concern.  
 The bandwidth is not affected by the number of user.  
 The service is guaranteed by the provider.

Correct answer  
 Security is a concern.

**Part II**

Pickup ALL correct answers.

Section score 7/14

**✓ A connectionless system:** 1/1

Can be reliable  
 Is unreliable

**✗ Packet switching:** 0/1

Does not suffer congestion.  
 Ensures better bandwidth utilization.  
 Does not need setup.  
 Is charged per distance.

Correct answer  
 Ensures better bandwidth utilization.  
 Does not need setup.

**✓ Throughput:** 1/1

Is the number of successfully transmitted data units per time unit.  
 Increases due to channel noise.  
 Is a fixed value.  
 Is a measure of how the network functions properly.

**✗ Computer network is:** 0/1

Collection of hardware components and computers.  
 Sharing of resources and information.  
 Interconnected by communication channel.

Correct answer  
 Collection of hardware components and computers.  
 Interconnected by communication channel.  
 Sharing of resources and information.

**✗ Vertical handoff:** 0/1

Ensures more connectivity.  
 Permits moving between cells having different Network interfaces.  
 Is used in 4G Systems.  
 Ensures more connectivity.

Correct answer  
 Permits moving between cells having different Network interfaces.  
 Is used in 4G Systems.  
 Ensures more connectivity.

**✓ ADSL should satisfy:** 1/1

Being much faster than 56 kbps.  
 Not affecting customers existing telephones and fax machine.  
 Working over the existing Category 3 twisted pair local loops.  
 Being always ON, with just a monthly charge and no per-minute charge.

**✗ In \_\_\_\_\_ topology if the computer cable is broken, networks get down.** 0/1

Star  
 Bus  
 Ring  
 Irregular

Correct answer  
 Star  
 Bus  
 Ring

**✗ The total delay for the circuit switching network is sum of:** 0/1

Setup time, propagation delay, processing delay, transmission delay  
 Propagation delay, processing delay.  
 Processing delay, transmission delay, setup time.  
 Setup time, propagation delay.

Correct answer  
 Setup time, propagation delay, transmission delay

**✓ An ADSL line has:** 1/1

Channel 0 is used for voice grade  
 The bandwidth is divided over 24 4-kHz channels  
 20 % of the channels are for upstream  
 A 1.1 MHz bandwidth

**✓ Link bandwidth:** 1/1

Varies in packet switching.  
 Is fixed in circuit switching.  
 Is fixed in circuit switching.  
 Varies in circuit switching.

**✓ The T1 carrier:** 1/1

Each channel is 8 bits  
 Consists of 24 channels  
 Its total rate is 1.644 Mbps  
 Contains a total of 193 bits

**✗ Over a telephone line:** 0/1

The V.34 modem standard transmits 12 data bits/symbol at 2400 baud giving a 28,800 bps data rate.  
 It is not possible to send data at a rate higher than 6000 baud.  
 Practical data rate is 2400 baud.  
 The V.32 modem standard sends 4 data bits and 1 control bit at a rate 2400 baud giving a data rate 9600 bps.

Correct answer  
 The V.32 modem standard sends 4 data bits and 1 control bit at a rate 2400 baud giving a data rate 9600 bps.

**✓ A connection oriented system:** 1/1

Is suitable for online transmission  
 Is suitable for file transfer  
 Does not need handshake  
 Wastes bandwidth

**✗ Radio signals are:** 0/1

Omnidirectional  
 Penetrate walls  
 Parallel to the earth surface at high frequency  
 Not affected by weather conditions

Correct answer  
 Omnidirectional  
 Penetrate walls  
 Not affected by weather conditions

**Your opinion**

Mark on a scale from 1 to 5.

Section score 0/0

**Was the quiz easy?**

1 2 3 4 5  
Difficult      Easy

**Was the exam at home comfortable?**

1 2 3 4 5  
No     Yes

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