



9E0-423

Cisco Voice Over
Frame Relay, ATM, and IP

Version 1.1

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QUESTION NO: 1

What is the size of an ATM cell header?

- A. 5 bytes
- B. 5 bits
- C. 48 bits
- D. 53 bits

Answer: A

QUESTION NO: 2

How many bytes does the RTP header add to the UDP header?

- A. 8 bytes
- B. 12 bytes
- C. 8 bits
- D. 12 bits

Answer: B

QUESTION NO: 3

Select the technology standard that provides a foundation for standardized voice, video, and data communications over an IP network.

- A. H.323
- B. G.711
- C. G.729
- D. G.729a

Answer: A

QUESTION NO: 4

What allows the router to connect PBX to PBX?

- A. FXS
- B. FXO
- C. Tie-line trunks
- D. Off-net connections
- E. On-net connections

Answer: C

QUESTION NO: 5

Select the VNM that supports 2 VWICs.

- A. NM-1V
- B. NM-2V
- C. One slot NM-HDV
- D. Two slot NM-HDV

Answer: D

QUESTION NO: 6

To be able to use the "voice-port" and "port" commands on the routers, addressing is important. For example, if a telephone were plugged into voice port 1/0/1 on a 2600 or 3600 router what would the 0 stand for?

- A. Voice port 0
- B. Module slot 0
- C. VIC slot 0

Answer: C

QUESTION NO: 7

When you look at the back of a 3640 where is slot 1 located?

- A. Bottom left
- B. Bottom right
- C. Top left

D. Top right

Answer: A

QUESTION NO: 8

Select the model of VNM that has two slots so you can install two VICs.

- A. NM-1V
- B. NM-2V
- C. NM-HDV
- D. Two port NM-HDV

Answer: B

QUESTION NO: 9

MICA stands for what?

- A. Modem ISDN channel aggregation
- B. Modern ISDN channel aggregation
- C. Modem ISDN channel aggregate

Answer: A

QUESTION NO: 10

Select the two kinds of dial peers. (Select two)

- A. POTS
- B. Voice-over
- C. FXS
- D. FXO
- E. E&M
- F. M&M

Answer: A, B

QUESTION NO: 11

How many levels of quality does the ITU-T have?

- A. 3
- B. 4
- C. 5
- D. 7

Answer: C

QUESTION NO: 12

Select the routers that provide a low-cost, entry level solution to provide voice access in remote and branch offices. (Select all that apply)

- A. 1750
- B. 2600
- C. 3600
- D. AS5300
- E. MC3810
- F. 7200/7500

Answer: A, B, C

QUESTION NO: 13

How many classes of service does ATM provide?

- A. 2
- B. 3
- C. 4
- D. 5
- E. 6

Answer: C

QUESTION NO: 14

Is ATM applicable to LAN and WAN traffic? True or False.

- A. True
- B. False

Answer: A

QUESTION NO: 15

What are the two kinds of leased-line networks? (Select two)

- A. Point-To-Point
- B. Multi-drop
- C. Point-To-Multipoint
- D. Full mesh
- E. Hybrid Mesh

Answer: A, B

QUESTION NO: 16

Which standard protocol does the Cisco IP phone use to communicate with the Cisco CallManager?

- A. The Skinny Station Protocol
- B. TCP/IP
- C. UDP
- D. PostOffice protocol

Answer: A

QUESTION NO: 17

By default, a VoIP packet contains how many bytes of payload?

- A. 12

- B. 16
- C. 20
- D. 24
- E. 48

Answer: C

QUESTION NO: 18

Select the components of a "Traditional Network". (Select all that apply)

- A. Voice network
- B. Video stream network
- C. Data network
- D. Digital voice network
- E. Digital video network

Answer: A, B, C

QUESTION NO: 19

What is the most common E&M tie-line type used in North America?

- A. Type 1
- B. Type I
- C. Type V
- D. Type Z

Answer: B

QUESTION NO: 20

Are, on the 2600 series, VIC and WIC slots the same size? True or False.

- A. True
- B. False

Answer: A

QUESTION NO: 21

The 3640 performs VoIP/VoFR/VoATM functions. True or False

- A. True
- B. False

Answer: A

QUESTION NO: 22

Select the vendor neutral standard.

- A. H.323
- B. VDoLive
- C. Cee-you-See-me
- D. NetMeeting

Answer: A

QUESTION NO: 23

What does E&M stand for? (Select all that apply)

- A. Ear & Mouth
- B. Earth & Magneto
- C. Electrical & Magnetic
- D. Electrical & Magneto

Answer: A, B

QUESTION NO: 24

By lifting the cradle you place the phone in what state?

- A. Off-hook
- B. On-hook
- C. Off-the-hook
- D. Circuit incomplete
- E. Circuit open

Answer: A

QUESTION NO: 25

What kind of call is characterized by calling devices from another company as a vendor?

- A. Off-net
- B. On-Net
- C. Local
- D. On-net to Off-net

Answer: A

QUESTION NO: 26

Each VIC has an enable LED that corresponds to each voice port. What color is the LED when the VIC is powering up?

- A. Flashing green
- B. Flashing Amber
- C. Solid green
- D. Solid Amber
- E. Flashing red
- F. Solid red

Answer: B

QUESTION NO: 27

Select the VIC that is used for PBX-to-PBX tie-line connections.

- A. E&M

- B. FXS
- C. FXO

Answer: A

QUESTION NO: 28

On a 2600, how many voice ports can be installed in a single-network module slot?

- A. 2
- B. 4
- C. 6
- D. 8

Answer: B

QUESTION NO: 29

Is a VNN (Voice Network Module) required in the 2600 and 3600 series routers to provide a slot for VICs? True or False.

- A. True
- B. False

Answer: A

QUESTION NO: 30

Select the component that converts analog signals to digital.

- A. CODEC
- B. MODEM
- C. Modulator
- D. Demodulator

Answer: A

QUESTION NO: 31

If you use loop-start signaling, can both sides of the connection hang-up? True or False.

- A. True
- B. False

Answer: B

QUESTION NO: 32

Select the interface that uses a RJ-48 connector.

- A. E&M
- B. FXS
- C. FXO

Answer: A

QUESTION NO: 33

Select the interface that is used for analog trunking of PBX-To-PBX.

- A. E&M
- B. FXS
- C. FXO

Answer: A

QUESTION NO: 34

Which layer provides connectivity for end-users?

- A. Application
- B. Access
- C. Core
- D. Physical

Answer: B

QUESTION NO: 35

What does CoSs stand for?

- A. Classes of service
- B. Class of service
- C. Complexity of service

Answer: A

QUESTION NO: 36

Select the maximum one-way delay acceptable when designing a VoFR network.

- A. 150-200 ms
- B. 200-250 ms
- C. 250-300 ms
- D. 300 s.

Answer: A

QUESTION NO: 37

Select the two categories of ATM service classes. (Select two)

- A. Real-time
- B. Non real-time
- C. Asynchronous
- D. Synchronous

Answer: A, B

QUESTION NO: 38

Is it true that with G.729 compression a phone call may require as little as 11.2 kbps during bursts?

- A. True
- B. False

Answer: A

QUESTION NO: 39

Select the components that processing delay can be affected by. (Select all that apply)

- A. Algorithmic factors
- B. Packetization
- C. Hybrid mesh
- D. Bandwidth

Answer: A, B

QUESTION NO: 40

Which global configuration command allows you to configure properties on an FXS port?

- A. port
- B. voice-port
- C. sh run
- D. config t

Answer: B

QUESTION NO: 41

Select two Media Convergence Servers. (Select all that apply)

- A. MCS-7822
- B. MCS-7835
- C. MC3810
- D. 2600 series router

E. 3600 series router

Answer: A, B

QUESTION NO: 42

What command is used to configure PQ-WFQ?

Answer: voice bandwidth

QUESTION NO: 43

Select the T-1 line-coding method that guarantees that Ones Density requirements will be met.

- A. B8ZS
- B. AMI
- C. HDB3

Answer: A

QUESTION NO: 44

Select the condition when a packet arrives with varying amounts of delay.

- A. Delay
- B. Jitter
- C. Silence

Answer: B

QUESTION NO: 45

3600 series routers have the console port on the front panel. True or False?

- A. False
- B. True

Answer: B

QUESTION NO: 46

When a telephony device is properly installed and you operate it what color will the LED light turn to show that the voice port is in operation on a VIC?

- A. Solid green
- B. Solid Amber
- C. Flashing green
- D. Solid red
- E. Flashing red
- F. No color

Answer: A

QUESTION NO: 47

How long does one bit time last in T1?

- A. 128 ns
- B. 256 ns
- C. 648 ns
- D. 540 ns

Answer: C

QUESTION NO: 48

Select the correct characterization of a On-Net connection.

- A. Phone to phone on the same router
- B. A call between two routers
- C. Phone to phone using PSTN

Answer: B

QUESTION NO: 49

How many digital voice connections does a 2600 series router support with two T1s?

- A. 24
- B. 4
- C. 60
- D. 48

Answer: D

QUESTION NO: 50

Select the bandwidth of an E1.

- A. 1.544Mbps
- B. 2.048Mbps
- C. 2048Mbps
- D. 1024Mbps

Answer: B

QUESTION NO: 51

Select the E&M tie-line used outside of North America.

- A. Type V
- B. Type 1
- C. Type I
- D. Type Z

Answer: A

QUESTION NO: 52

What delays the play-out of the first packet in a talk-spurt?

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- A. De-jitter buffers
- B. Queuing delay
- C. Serialization delay

Answer: A

QUESTION NO: 53
What does ABR stand for?

- A. Available bit rate
- B. Available byte rate
- C. Availability bit rate
- D. Availability byte rate

Answer: A

QUESTION NO: 54
Select the term that describes a logical connection between the router and an endpoint.

- A. Call leg
- B. Trunk line
- C. E&M connection

Answer: A

QUESTION NO: 55
Select the router that supports up to six network module slots

- A. 3620
- B. 3640
- C. 3660
- D. 2660

Answer: C

QUESTION NO: 56

What is the counterpart to a FXO?

- A. FXS
- B. FXD
- C. FXM
- D. FXE

Answer: A

QUESTION NO: 57

Your MC3810 shuts down after a period of time. What may be wrong?

- A. Too much traffic.
- B. The unit is overheating.
- C. Bad configuration.
- D. Power supply is going bad.

Answer: B

QUESTION NO: 58

What is the other signaling method besides DTMF?

- A. Pulse
- B. Dial tone multiplexing
- C. Dial tone multifrequency

Answer: A

QUESTION NO: 59

Select the ATM encapsulation type used for data.

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- A. aal5snap
- B. aal5mux
- C. aal5atm

Answer: A

QUESTION NO: 60

How many levels of "voice" does AT&T have?

- A. 3
- B. 4
- C. 5
- D. 7

Answer: A

QUESTION NO: 61

Select the European standard for ITU-T pulse Code Modulation.

- A. a-law
- B. u-law (Mu-law)
- C. the law

Answer: A

QUESTION NO: 62

Does the 2620 support two 10/100Mbps Ethernet ports? True or False.

- A. True
- B. False

Answer: B

QUESTION NO: 63

Select the business markets that can benefit from implementing Cisco's AVVID. (Select all that apply)

- A. Enterprise market
- B. Service provider market
- C. Grocery market
- D. SOHO
- E. ROBO

Answer: A, B

QUESTION NO: 64

Select the two types of leased line networks. (Select two)

- A. Point-to point networks
- B. Point-to-multipoint networks
- C. multi-drop networks

Answer: A, C

QUESTION NO: 65

What does FDM stand for?

- A. Frequency Division Multiplexing
- B. Frequently Divided Multiplexing
- C. Frame Division Multirole
- D. Frame Divided Multirole

Answer: A

QUESTION NO: 66

Does the 3660 router support up to 24 analog voice interfaces or 360 digital voice interfaces? True or False.

- A. True
- B. False

Answer: A

QUESTION NO: 67

If you are at home and you pick up the phone and some one is at the other end, what is this condition called?

- A. Glare
- B. Stare
- C. Collision
- D. Contention

Answer: A

QUESTION NO: 68

Hoot-and-holler allows customers to save money by eliminating what, using VoIP or VoFR networks?

- A. Leased lines
- B. SVCs
- C. PVCs
- D. Modems

Answer: A

QUESTION NO: 69

What do you check on the 2600/3600 to verify proper installation of a VIC module?

- A. LEDs
- B. The running-config
- C. The startup-config
- D. FLASH memory

Answer: A

QUESTION NO: 70

Select the ITU-T standard that specifies recommended one-way voice delay.

- A. ITU-T G.114
- B. ITU-T G.711
- C. ITU-T G.729
- D. ITU-T G.729a

Answer: A

QUESTION NO: 71

At layer 2, how many bytes of overhead in VoIP applications does Ethernet use?

- A. 12
- B. 8
- C. 14
- D. 20
- E. 24

Answer: C

QUESTION NO: 72

**Select the two trunk types one would order to provide dedicated lines for outgoing and incoming calls.
(Select two)**

- A. DID
- B. DOD
- C. DDD
- D. DWD

Answer: A, B

QUESTION NO: 73

Select the components that appear on the front of the 3600 series routers. (Select all that apply)

- A. Console port
- B. Auxiliary port
- C. Activity/ready LED lights
- D. PC Flash card slot
- E. Power on/off switch
- F. Connector for the power cord

Answer: A, B, C, D

QUESTION NO: 74

Select the three compression schemes. (Select three)

- A. Hybrid compression
- B. Vocoder compression
- C. Wave form compression
- D. Kompressor

Answer: A, B, C

QUESTION NO: 75

Select the connection type that allows for calls between two devices connected to the same router.

- A. Local
- B. Off-net
- C. PLAR
- D. On-net

Answer: A

QUESTION NO: 76

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Is a voice port the physical connection or the logical mapping?

- A. Physical connection
- B. Logical mapping

Answer: A

QUESTION NO: 77

The ITU-T standard G.711 is what ITU-T service level?

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

Answer: E

QUESTION NO: 78

Select the implemented ITU-T standards used for voice compression. (Select all that apply)

- A. G.729
- B. G.729a
- C. Q.931
- D. Q.921

Answer: A, B

QUESTION NO: 79

Which delay results from network congestion?

- A. Queuing delay
- B. Serialization delay
- C. Processing delay

Answer: A

QUESTION NO: 80

RTP header compression can reduce the IP/UDP/RTP header from 40 bytes to about what?

- A. 2 or 4
- B. 6 or 8
- C. 8 or 12
- D. 12 or 16

Answer: A

QUESTION NO: 81

Select the three components of a leased-line network. (Select three)

- A. Switched virtual circuits
- B. Permanent virtual circuits
- C. IXC circuits
- D. Two tail-circuits
- E. LEC circuits

Answer: C, D, E

QUESTION NO: 82

What command allows you to expand the dialed digits 1234 to include a 1 and the 510 area code?

- A. num-exp 1234 15101234
- B. exp-num 1234 15101234
- C. expand 1234 15101234

Answer: A

QUESTION NO: 83

Which IP Phone has an Ethernet switch in it? (Select all that apply)

- A. IP Phone 7910+SW
- B. IP Phone 7960

Answer: A, B

QUESTION NO: 84

Select the standards based mechanism for providing fragmentation of data over Frame-Relay.

- A. FRF.12
- B. Q.921
- C. G.711
- D. G.729a
- E. FRF.11

Answer: A

QUESTION NO: 85

Select the ATM encapsulation type used for voice.

- A. aal5mux
- B. aal5snap
- C. aal5atm

Answer: A

QUESTION NO: 86

How do you configure the CIR for traffic shaping?

Answer: frame-relay cir

QUESTION NO: 87

Select the interfaces that use RJ-11 connectors. (Select all that apply)

- A. E&M
- B. FXS
- C. FXO

Answer: B, C

QUESTION NO: 88

What command verifies dial-peer configuration?

- A. Show run
- B. Show config
- C. Show dial-peer voice
- D. Show start

Answer: C

QUESTION NO: 89

What do you call a phone that is hung up?

- A. Hung up
- B. On-hook
- C. Off-hook

Answer: B

QUESTION NO: 90

You are facing the back panel of a 2600. What RJ-45 jack is the Ethernet 0/1?

- A. The left most
- B. The right most
- C. The one in the middle

Answer: A

QUESTION NO: 91

What is the size of an ATM cell?

- A. 53 byte
- B. 64 bytes
- C. 48 bytes

Answer: A

QUESTION NO: 92

To be able to use the "voice-port" and "port" commands on the routers, addressing is important. For example, if a telephone were plugged into voice port 1/0/1 on a 2600 or 3600 router what would the second 1 stand for?

- A. The voice port
- B. VIC slot
- C. Module slot

Answer: A

QUESTION NO: 93

The MC3810 chassis was modified to accommodate which module?

- A. VDM
- B. VIC
- C. VNM
- D. E1/T1

Answer: A

QUESTION NO: 94

To be able to use the "voice-port" and "port" commands on the routers, addressing is important. If I say voice port 1/0/1 what does the first 1 represent?

- A. Module slot 1
- B. VIC slot 1
- C. Voice port 1

Answer: A

QUESTION NO: 95

Select three components of the digital T1/E1 packet trunk module. (Select three)

- A. Multiflex trunk (MFT VWIC)
- B. High-density voice network module (NM-HDV)
- C. Packet voice DSP module (PVDM)
- D. FXO
- E. FXS
- F. E&M

Answer: A, B, C

QUESTION NO: 96

Is ATM a connection oriented protocol or a connectionless protocol?

- A. Connection oriented
- B. Connectionless

Answer: A

QUESTION NO: 97

Select the two general levels of delay. (Select two)

- A. Fixed delay

- B. Variable delay
- C. Propagation delay
- D. De-jitter buffers

Answer: A, B

QUESTION NO: 98

Select the signaling choices for an E&M interface. (Select all that apply)

- A. Wink-start
- B. Immediate
- C. Delay-dial
- D. Loop-start
- E. Ground-start

Answer: A, B, C

QUESTION NO: 99

Which layer performs high-speed switching?

- A. Access
- B. Distribution
- C. Physical
- D. Transport
- E. Core

Answer: E

QUESTION NO: 100

Select three voice-access gateways. (Select three)

- A. DT 24+
- B. VG-200
- C. Cat 6000 Family Voice
- D. 2600

- E. 3600
- F. MC3810

Answer: A, B, C

QUESTION NO: 101

Which queuing method uses four queues?

- A. Weighted fair queuing
- B. Priority queuing
- C. Custom queuing
- D. FIFO

Answer: B

QUESTION NO:102

The use of small, fixed-size frames in VoATM reduces what in voice networks? (Select all that apply)

- A. Delay queuing
- B. Delay variations
- C. Jitter
- D. Delay

Answer: A, B

QUESTION NO: 103

How do you express voice quality measurements?

- A. QoS
- B. MoS
- C. MOS
- D. ToS

Answer: C

QUESTION NO: 104

Which interface allows for what connections to the PSTN?

- A. FXO
- B. FXS
- C. E&M

Answer: A

QUESTION NO: 105

Is the D4 framing pattern used in T1 Superframes: 1000 1101 1100?

- A. True
- B. False

Answer: A

QUESTION NO: 106

What are the three types of WICs that can be installed in the VNM? (Select all that apply)

- A. E&M
- B. M&M
- C. FXO
- D. FXS
- E. T1/E1

Answer: A, C, D

QUESTION NO: 107

Select the components of variable delay. (Select all that apply)

- A. Propagation delay

- B. Serialization delay
- C. Processing delay
- D. De-jitter buffers
- E. Queuing delay
- F. WAN delays

Answer: D, E, F

QUESTION NO: 108

Select the connection that automatically dials when a phone is lifted off-hook.

- A. PLAR
- B. On-net
- C. Off-net
- D. Local

Answer: A

QUESTION NO: 109

Select the delay that is the delay caused by clocking the bits on the line.

- A. Propagation
- B. Serialization
- C. Processing
- D. Queuing
- E. De-jitter
- F. WAN service provider delay

Answer: B

QUESTION NO: 110

Does a FXS interface allow connections for a fax machine?

- A. True
- B. False

Answer: A

QUESTION NO: 111

What is the size of an ATM cell payload?

- A. 53 bytes
- B. 48 bytes
- C. 64 bytes

Answer: B

QUESTION NO: 112

Will the MC3810 Cisco product provide an end-to-end integrated multiservice solution in a single fixed configuration chassis? True or False

- A. True
- B. False

Answer: A

QUESTION NO: 113

Which voice port standard allows connectivity to a standard PBX interface or the PSTN?

- A. FXO
- B. FXS
- C. E&M
- D. M&M

Answer: A

QUESTION NO: 114

Is the name of the external signaling network used in telephony networks SS7? True or False.

- A. True
- B. False

Answer: A

QUESTION NO: 115

Select the two methods of dealing with echo. (Select two)

- A. Don't deal with it
- B. Echo suppression
- C. Echo cancellation
- D. Echo compression
- E. Line compression

Answer: B, C

QUESTION NO: 116

Is there such a thing as a "test" command? True or False.

- A. True
- B. False

Answer: A

QUESTION NO: 117

The voice ports on the VICs are numbered, which is numbered port 0?

- A. The right port
- B. The left port

Answer: A

QUESTION NO: 118

What does PCM stand for?

- A. Power Cord Modulator
- B. Pulse Code Modulation
- C. Power Code Modulation
- D. Pulse Code Modulator

Answer: B

QUESTION NO: 119

Select two type of address signaling. (Select two)

- A. Pulse
- B. DTMF
- C. Digital
- D. Analog

Answer: A, B

QUESTION NO: 120

Select the data/voice integration Multiservice routers. (Select all that apply)

- A. AS5300
- B. MC3810
- C. 1750
- D. 2600
- E. 3600

Answer: A, B

QUESTION NO: 121

Does the 2621 support two 10/100Mbps Ethernet ports? True or False.

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- A. True
- B. False

Answer: A

QUESTION NO: 122

**If you specify virtual template parameters after the ATM PVC is configured, should you issue a shutdown followed by a no shut command?
True or False.**

- A. True
- B. False

Answer: A

QUESTION NO: 123

Select the sampling rate at which an analog voice is sampled using G.711 PCM coding.

- A. 8k
- B. 16k
- C. 10k
- D. 24k
- E. 36k

Answer: A

QUESTION NO: 124

Select the two examples of hybrid coding. (Select two)

- A. CS-ACELP
- B. LD-CELP
- C. LS-CELP
- D. LC-ACELP

Answer: A, B

QUESTION NO: 125

You are installing a MC3810, what color are the FXO ports?

- A. Blue
- B. Red
- C. Green
- D. Pink
- E. Amber
- F. Brown

Answer: D

QUESTION NO: 126

Select the router that features a high-performance Motorola MCP860 PowerQUICC RISC cpu capable of forwarding traffic between Ethernet interfaces at wire speed.

- A. 2600
- B. 3600
- C. 3660
- D. 7200
- E. 7500

Answer: A

QUESTION NO: 127

Select the three types of signaling used to establish a call. (Select three)

- A. Supervisory
- B. Address
- C. Informational
- D. Management
- E. E&M

Answer: A, B, C

QUESTION NO: 128

What's a PVC?

- A. A type of plastic pipe?
- B. Permanent Virtual Circuit
- C. Persistent Virtual Circuit
- D. Primary Virtual Circuit

Answer: B

QUESTION NO: 129

Select the three Cisco network design models. (Select three)

- A. Access
- B. Distribution
- C. Physical
- D. Core
- E. Application

Answer: A, B, D

QUESTION NO: 130

You are facing the back panel of a 2600 series router. What RJ-45 jack is the Auxiliary port?

- A. The left most
- B. The right most
- C. The one in the middle

Answer: B

QUESTION NO: 131

What does DTMF stand for?

- A. Dial tone multifrequency
- B. Dual tone multifrequency
- C. Dial tone multiplexing
- D. Dual tone multiplexing

Answer: B

QUESTION NO: 132

Select the two frequencies of a dial tone. (Select two)

- A. 350hz
- B. 440hz
- C. 350Mhz
- D. 440Mhz
- E. 550hz
- F. 540hz

Answer: A, B

QUESTION NO: 133

What show command will display the ATM configuration for each PVC?

Answer: show atm pvc

QUESTION NO: 134

Select two Cisco IP telephony components that are used to connect to the PSTN. (Select two)

- A. Cisco IOS Gateway
- B. Digital Trunk Gateway
- C. FXS
- D. E&M

Answer: A, B

QUESTION NO: 135

**Does the 2600 series router support up to 4 analog voice ports and up to 60 digital voice channels?
True or False.**

- A. True
- B. False

Answer: A

QUESTION NO: 136

Select the four steps involved in digitizing an analog signal. (Select four)

- A. Modulate
- B. Demodulate
- C. Sample
- D. Quantize
- E. Encode
- F. Compress

Answer: C, D, E, F

QUESTION NO: 137

How many channels on a T1 are used for ATM?

- A. 24
- B. 30
- C. 23
- D. 12

Answer: A

QUESTION NO: 138

What technology automatically connects a telephone to a second phone as soon as the first phone is lifted from the cradle?

- A. PLAR
- B. Off-net
- C. On-Net
- D. OPS connection
- E. Local

Answer: A

QUESTION NO: 139

Select the layer of the Cisco Design model that provides QoS and security.

- A. Access
- B. Distribution
- C. Core

Answer: B

QUESTION NO: 140

Are the VIC/WIC cards interchangeable between a 2600 and a 3600 series router? True or False.

- A. True
- B. False

Answer: A

QUESTION NO: 141

How much bandwidth does a G.729 call consume?

- A. 24kbps
- B. 48kbps

- C. 64kbps
- D. 32kbps

Answer: A

QUESTION NO: 142

Does the 1750 provide voice/fax/data integration as well as VPN and QoS?

- A. True
- B. False

Answer: A

QUESTION NO: 143

Select the benefits of implementing AVVID. (Select all that apply)

- A. Reduce cost
- B. Increase productivity
- C. Reduce mistakes
- D. Increase costs

Answer: A, B

QUESTION NO: 144

Which compression scheme has the best audio quality?

- A. Hybrid
- B. Wave
- C. Vocoder

Answer: A

QUESTION NO: 145

Select the preferred queuing method for VoFR.

- A. PQ-WFP
- B. Priority
- C. Custom queuing

Answer: A

QUESTION NO: 146

You are installing a MC3810, what color is the E&M port?

- A. Gray
- B. Brown
- C. Red
- D. Pink
- E. Blue

Answer: B

QUESTION NO: 147

Select the RFC that RSVP follows.

- A. RFC 2205
- B. RFC 1918
- C. RFC 2920

Answer: A

QUESTION NO: 148

How many frames in a Superframe?

- A. 12
- B. 15
- C. 16

D. 24

Answer: A

QUESTION NO: 149

If you use ground start signaling can both sides of the connection hang up? True or False?

- A. True
- B. False

Answer: A

QUESTION NO: 150

When you look at the back of a 3640 where is slot 2 located?

- A. Bottom right
- B. Bottom left
- C. Top right
- D. Top left

Answer: C

QUESTION NO: 151

Does the 3660 have any ports or LEDs on the front? Yes or No.

- A. Yes
- B. No

Answer: B

QUESTION NO: 152

What command displays the dial-peer information in a summarized table?

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Answer: show dial-peer voice summary

QUESTION NO: 153

What is the speed or bandwidth of a T1?

- A. 1.544Mbps
- B. 2.048Mbps
- C. 1024Mbps
- D. 2048Mbps

Answer: A

QUESTION NO: 154

What is a PBX?

- A. Private Branch Exchange
- B. Private Binary Exchange
- C. Privacy Binary Exchange

Answer: A

QUESTION NO: 155

What is the first thing you do when diagnosing a voice-port?

- A. Check for dial tone
- B. Check the LED
- C. Check the running config
- D. Check the startup config

Answer: A

QUESTION NO: 156

Does the AS5300 use the same cables as the 2600/3600 routers? True or False.

- A. True
- B. False

Answer: A

QUESTION NO: 157

When you look at the back of a 3640 where is slot 3 located?

- A. Bottom right
- B. Bottom left
- C. Top left
- D. Top right

Answer: C

QUESTION NO: 158

Is it true that you can transmit voice directly over OSI layer 2 without the benefit of IP?

- A. True
- B. False

Answer: A

QUESTION NO: 159

Select the signaling choices for FXO and FXS interfaces. (Select all that apply)

- A. Loop-start
- B. Ground-start
- C. Wink-start
- D. Immediate
- E. Delay-dial

Answer: A, B

QUESTION NO: 160

What is the overhead factor used in calculating the total bandwidth necessary for data PVCs?

- A. 1.13
- B. 1.23
- C. 1.33

Answer: A

QUESTION NO: 161

Is the AS5300 both a dialup access server and a VoIP gateway? True or False.

- A. True
- B. False

Answer: A

QUESTION NO: 162

Select the term that describes the condition when a packet takes so long to arrive at the other end that the speaker at that end may interpret the delay as silence on the other person's part

- A. Delay
- B. Jitter
- C. Silence

Answer: A

QUESTION NO: 163

Select the naming of the framing format in an E-1 circuit.

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- A. Multiframe
- B. Superframe
- C. Baby Giant
- D. Runt

Answer: A

QUESTION NO: 164

Voice transmissions are like data transmissions and are not seriously affected by delay of packet delivery. True or False.

- A. True
- B. False

Answer: B

QUESTION NO: 165

Select the device that solves the N(2) problem.

- A. A router
- B. A switch
- C. A hub
- D. A bridge

Answer: B

QUESTION NO: 166

What does VBR stand for?

- A. Variable bit rate
- B. Various bit rate
- C. Various byte rate
- D. Variable byte rate

Answer: A

QUESTION NO: 167

Is, on a 3600 series router, the console port in the front? True or False.

- A. True
- B. False

Answer: A

QUESTION NO: 168

Select two functions of the Cisco IP phone. (Select two)

- A. DHCP server
- B. DHCP client
- C. Codec
- D. Modem

Answer: B, C

QUESTION NO: 169

When you look at the back of a 3640, which slot is slot 0?

- A. Bottom left
- B. Bottom right
- C. Top right
- D. Top left

Answer: B

QUESTION NO: 170

In configuring VoIP networks, what command is used to enable fragmentation, but fragments ALL frames leaving the interface?

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Answer: mtu size

QUESTION NO: 171

You are installing a MC3810, what color is the FXS ports?

- A. Gray
- B. Blue
- C. Brown
- D. Red
- E. Pink

Answer: A

QUESTION NO: 172

Which came first Frame Relay or X.25?

- A. Frame Relay
- B. X.25

Answer: B

QUESTION NO: 173

The voice ports on the VIC are numbered. Which port is port 1?

- A. The left port
- B. The right port

Answer: A

QUESTION NO: 174

Select the two line coding methods for E1 circuits. (Select two)

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- A. AMI
- B. HDB3
- C. B8ZS

Answer: A, B

QUESTION NO: 175

What powerful troubleshooting tool can severely impact a router's performance?

- A. Show run
- B. Show flash
- C. debug
- D. show start

Answer: C

QUESTION NO: 176

What are the three parts of a leased line network? (Select three)

- A. The local circuit at the local site.
- B. The local circuit at the remote site.
- C. A circuit through the IXC's network.
- D. A circuit through the PTT network.
- E. T-1 network.

Answer: A, B, C

QUESTION NO: 177

Select the interface card that allows connection to a central office of the PSTN.

- A. FXS
- B. FXO
- C. E&M

Answer: B

QUESTION NO: 178

Select the component that converts 2 wire to 4 wire.

- A. Hybrid
- B. Converter
- C. Splitter

Answer: A

QUESTION NO: 179

What does UBR stand for?

- A. Unspecified bit rate
- B. Unknown bit rate
- C. Unspecified byte rate
- D. Unknown byte rate

Answer: A

QUESTION NO: 180

Select the ISDN protocol that H.323 uses for connection requests.

- A. Q.931
- B. Q.921
- C. G.711
- D. G.729a

Answer: A

QUESTION NO: 181

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Does FXO stand for Foreign Exchange Office? True or False.

- A. True
- B. False

Answer: A

QUESTION NO: 182

Can the Ethernet0/1 port on a 2610 be configured for 100Mbps duplex? True or False.

- A. True
- B. False

Answer: B

QUESTION NO: 183

What protocols are used to carry Voice over IP traffic? (Select all that apply)

- A. UDP
- B. IP
- C. RTP
- D. FTP
- E. SNMP

Answer: A, B, C

QUESTION NO: 184

Which interface connects directly to a phone handset and provides dial tone, line power, and ring voltage?

- A. FXS
- B. FXO
- C. E&M

Answer: A

QUESTION NO: 185

What is a DSP?

- A. Digital String Process
- B. Digital Signal Processor
- C. Digital String Processor

Answer: B

QUESTION NO: 186

On a MC3810 what must be configured in order to permit traffic on the ATM0 interface?

- A. controller t1 0
- B. controller t0 0
- C. Controller t1 1

Answer: A

QUESTION NO: 187

Select the acronym that describes congestion notification to the source device.

- A. BECN
- B. FECN
- C. FRTS

Answer: A

QUESTION NO: 188

Select the three types of E&M start signaling. (Select three)

- A. Wink start

- B. Immediate start
- C. Delay start
- D. Standby start

Answer: A, B, C

QUESTION NO: 189

Select the traffic service class that is generally recommended for voice traffic.

- A. Variable bit rate real time.
- B. Variable bit non-real-time
- C. Unspecified bit rate
- D. Constant bit rate

Answer: A

QUESTION NO: 190

What application allows users to get all of their messaging from a single point?

- A. Unified messaging
- B. NetMeeting
- C. Exchange
- D. Lotus Notes

Answer: A

QUESTION NO: 191

Select the three "skinny" station protocol message types. (Select three)

- A. Call control
- B. Message control
- C. Registration and management
- D. Informational
- E. Log

Answer: A, B, C

QUESTION NO: 192
What does CBR stand for?

- A. Constant bit rate
- B. Consistent byte rate
- C. Constant byte rate
- D. Consistent bit rate

Answer: A

QUESTION NO: 193
Select the Frame Relay network model that minimizes transit hops and maximizes the ability to establish different qualities of service.

- A. Full mesh
- B. Hybrid mesh
- C. Point to Point
- D. Point to multipoint

Answer: A

QUESTION NO: 194
Select the components of fixed delay. (Select all that apply)

- A. Propagation delay
- B. Serialization delay
- C. Processing delay
- D. De-jitter buffers
- E. De-jitter buffers
- F. WAN delays

Answer: A, B, C

QUESTION NO: 195

Are the 1750, 2600 and 3600 series optimized for LAN/WAN, WAN edge devices, and multiservice voice/data integration? True or False.

- A. True
- B. False

Answer: A

QUESTION NO: 196

How many slots does a 3640 router have?

- A. 4
- B. 2
- C. 6

Answer: A

QUESTION NO: 197

You are installing a voice module in a AS5300 at least one feature card must be what?

- A. A quad T1/PRI
- B. E&M
- C. FXS
- D. FXO
- E. VDM
- F. VNM

Answer: A

QUESTION NO: 198

In Europe, what is the most widely deployed digital technology?

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- A. T-1
- B. E-1
- C. ISDN
- D. Cable modem

Answer: C

QUESTION NO: 199

Select the components that appear on the back of the 3600 series routers. (Select all that apply)

- A. Connector for the power cord
- B. Power on/off switch
- C. Activity/ready LEDs
- D. A two/four/six chassis slots
- E. Console port

Answer: A, B, D

QUESTION NO: 200

Is a dial peer provide logical mapping or is it a physical connection?

- A. Logical mapping
- B. A physical connection

Answer: A

QUESTION NO: 201

What command allows you to configure per-virtual circuit queuing and traffic shaping for all PVCs on a Frame Relay interface?

Answer: frame-relay traffic-shaping

QUESTION NO: 202

Select the technology that has long term growth potential.

- A. VoIP
- B. VoATM
- C. VoFR
- D. VoSer

Answer: A

QUESTION NO: 203

What does LEC stand for?

- A. Local Exchange Carrier
- B. Local Exchange Client
- C. LAN Emulation Client
- D. LAN Exchange Client

Answer: A

QUESTION NO: 204

Select the delay that is caused by the distance electrons need to travel.

- A. Propagation
- B. Serialization
- C. Processing
- D. Queuing
- E. De-jitter
- F. WAN service provider delay

Answer: A