

Microsoft HT0-101 Questions \$ Answers

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Exam Name: HTI+ Residential Systems

Examsoon

QUESTION 1

Three communicating thermostats installed in one residence is referred to as a:

- A. 3-Damper system
- B. 3-Room system
- C. 3-Zone system
- D. 3-Process system

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

Covert video cameras can be legally installed:

- A. Anywhere the client decides.
- B. Anywhere there is a potential for high-crime volume.
- C. In places where there is no expectation of privacy.
- D. In places where permissions has been given by the owner.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Surveillance cameras can be used in most exterior residential locations; however, you should remember that a surveillance camera cannot be located where there is a reasonable expectation of privacy.

QUESTION 3

When troubleshooting a lighting problem in an existing home, the home technology integrator differentiates between low-voltage and high-voltage lighting control by examining the:

- A. Incandescent bulbs
- B. Fluorescent bulbs
- C. Differences in the wall and ceiling mounts
- D. Cable supplying power to the lighting fixture

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

A Certkiller technician is on-site to configure a home security alarm system. The technician needs to create a configuration that alerts the off-site customer monitoring center whenever the front and side doors are armed and opened.

Which of the following devices does the technician need to install on the doors to have them trip the alarm?

- A. Rug sensors
- B. Motion sensor
- C. Magnetic contacts
- D. Closed circuit TV

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

The maximum recommended cable distance between stations for 10Base-T Ethernet on Category 3 cabling is:

- A. 50 meters
- B. 100 meters
- C. 200 meters
- D. 500 meters

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

A client has a 100 watt stereo receiver. The client has purchased speakers rated at 200 watts. The receiver keeps shutting off, and the distortion is high.



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Which of the following is the best explanation?

- A. The speakers need more power than 100 watts.
- B. The strands of wire are touching.
- C. The speaker cable is the wrong gauge.
- D. The protective fuses in the receiver are too weak.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

Which of the following use high-frequency sound?

- A. Occupancy sensors
- B. Ultrasonic sensors
- C. Photosensors
- D. Passive Infrared (PIR) sensors

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

Which of the following is a type of coaxial cable used in television and satellite installations?

- A. RG-6
- B. RG-58
- C. RJ-11
- D. RJ-45

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

Which of the following TCP/IP protocols is used to manage the assignment of IP addresses?

- A. Domain name service (DNS)
- B. Network address translation (NAT)
- C. Dynamic host configuration protocol (DHCP)
- D. Simple network management protocol (SNMP)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

A client requests to have two sub-woofers installed to create stereo effect.

Which of the following statements is the best response a technician can make?

- A. Two sub-woofers would produce too much bass.
- B. Another amp is required to power the second sub-woofer.
- C. Two sub-woofers are unnecessary and would cost too much.
- D. The sub-woofer's sound is too low to have an effect on stereo imaging.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

How many B channels are included in an integrated services digital network (ISDN) BRI?

- A. 1
- B. 2
- C. 4
- D. 23

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

An individual has connected a turntable to a stereo receiver. When a record is played, the system emits a loud hum.

Which of the following is the most likely cause of this problem?

- A. The cartridge needs to be replaced.
- B. The speakers are too close together.
- C. The turntable is plugged into an auxiliary port.
- D. The ground wire on the turntable is disconnected.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

The technician is onsite to install a security camera system and has successfully configured the camera and video monitor. The customer has a request to attach the camera to the customer's television.

Which of the following devices would the technician need to install to connect the security camera to the television?

- A. Splitter
- B. Coupler
- C. BALUN
- D. High pass filter

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

Which of the following types of network cables can support a maximum segment length of 2,000 meters?

- A. Fiber optic
- B. Thin coaxial
- C. Unshielded twisted pair
- D. Thick coaxial

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

Which of the following types of sensors are the most commonly used, both inside and outside of the home, and detect the presence of humans based on emitted radiation?

- A. Passive Infrared (PIR) sensors
- B. Ultrasonic sensors
- C. Microwave sensors
- D. Charged Coupled Device (CCD) sensors

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

A Digital Subscriber Line (DSL) service requires:

- A. Two pair to operate
- B. A single copper pair
- C. A second telephone line
- D. A coaxial cable connection

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

Which of the following is required to connect a computer to a DSL?

- A. Hub
- B. Switch
- C. Terminal adapter
- D. Network interface card

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

Which of the following types of connectors is found on a digital optical cable?

- A. Coaxial
- B. Toslink
- C. Banana
- D. Phoenix

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

The maximum data rate for the IEEE 802.11b specification is:

- A. 2.0 Mbps
- B. 5.5 Mbps
- C. 11 Mbps
- D. 54 Mbps

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

A customer is complaining that the network does down intermittently. The customer also reports the house seems to get cooler right before the network comes back up.

Which of the following is the best possible explanation for this situation?

- A. The equipment is too cold.
- B. The equipment is overheating.
- C. The network wiring is too overheating.
- D. The network wiring is too close to the air conditioner.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

Which of the following is NOT a type of residential HVAC system?

- A. Radiant heater
- B. Forced air
- C. Hydronic
- D. Cooling tower

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

A local Internet Service Provider (ISP) installed a new DSL service and DSL modem for high-speed Internet access. The Internet connection is up and working.

However there is a low humming noise on the phones, and voice calls are degraded.

Which of the following is the probable cause for this voice degradation?

- A. The ATU-C is misconfigured.
- B. The ATU-R is not installed properly.
- C. There is EMI on the plain old telephone system (POTS) line.
- D. There are no low-pass filters installed on the plain old telephone system (POTS) line.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

In Ohm's law, voltage equals:

- A. $R + I$
- B. $R - I$
- C. $R * I$
- D. R / I

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

The security system should be wired in front of the home's phone system in order to obtain line:

- A. Supervision
- B. Series
- C. Suppression

D. Seizure

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

Which of the following services would be best for a small business owner, who wants to be sure not to miss any phone calls away from the office?

- A. Caller ID
- B. Call Waiting
- C. Call Blocking
- D. Voice Mail Box

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

Which of the following terms refers to having separate HVAC systems for the first and second floor of a two-story home?

- A. Split system
- B. Binary system
- C. Heat pump system
- D. Forced air system

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

Which of the following is NOT a critical criteria in the design of an audio distribution system?

- A. Impedance
- B. Volume level
- C. Processor speed
- D. Power requirement

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

A home network consists of three computers. The computers are used for controlling the climate of the house. All three computers can ping the IP addresses of many Web sites, but not by the URL of the site.

Which of the following settings needs to be corrected?

- A. IP address
- B. Default gateway
- C. Domain name system (DNS)
- D. Dynamic host configuration protocol (DHCP)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

On a three-wire A/V cable, the red plug is used to connect which of the following?

- A. S- Video
- B. Composite video
- C. Left channel audio
- D. Right channel audio

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

All of the following steps are considered low-voltage wiring best practices EXCEPT:

- A. Anchor the wires inside a stud bay.
- B. Keep low-voltage cables away from line voltage cables.
- C. Leave extra wire at both ends to accommodate for termination.
- D. Choose the highest number wire gauge possible for speaker runs.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

A technician is assigned to configure the e-mail function on three computers in a residential home office. The network also consists of a DSL router and firewall.

Which of the following two protocols must the technician configure on the firewall for the e-mail to function properly?

- A. DSL and Ipv6

- B. IMAP4 and FTP
- C. SMTP and POP3
- D. DHCP and WINS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

SMTP and POP3 are e-mail protocols.

QUESTION 32

Which of the following protocols is primarily used to provide TCP/IP over a dial-up Internet connection?

- A. Point-to-Point (PPP)
- B. Remote Access Service (RAS)
- C. Synchronous Optical Network (SONET)
- D. Independent Computing Architecture (ICA)

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

Which of the following AT commands will reload the factory defaults of a modem?

- A. DT
- B. #9
- C. &F
- D. Z1

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

Which of the following types of network media uses an RJ-45 connector?

- A. UTP
- B. FDDI
- C. Thinnet
- D. Thicknet

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

A client has a High-Definition TV (HDTV) and a DVD player. They both have four different connection types: coaxial, component, S-Video, and composite.

Which of the following would offer the client the best quality picture?

- A. Component
- B. Coaxial
- C. S-Video
- D. Composite

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

Which of the following video outputs provides the highest resolution?

- A. VGA
- B. S-VHS
- C. Composite
- D. Component

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

In basic lock installations, the term "backset" is the:

- A. Type of lock mechanism.
- B. Inner mechanism of the lock.
- C. The distance from the door edge to the lock mechanism.
- D. The diameter of the mounting hole for the lock mechanism.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

A customer wants to have a home theater with a High Definition TV (HDTV).

The current broadcast standard that is currently being adopted by most mainstream local broadcasters is:

- A. 480 scan lines
- B. 720 scan lines

- C. 1,080 scan lines
- D. 1,240 scan lines

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

In a 5.1 channel surround sound system the minimum number of speakers requires by design, excluding the subwoofer, is:

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

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

Which of the following lighting components provides the starting voltage for a lamp?

- A. Power controller
- B. Power regulator
- C. Light source
- D. Optical control

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

According to the EIA/TIA 570 standard, the location and minimum number of outlets is:

- A. One in every room.
- B. One on every wall.
- C. Four on each floor.
- D. Within six feet of every door and window.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

The division points that allow different audio streams to be heard in different areas of the house are:

- A. Zones
- B. Regions
- C. Listening areas
- D. Partitions

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

In the design of a residential exterior lighting control system that uses lighting as a security measure, which of the following is the primary focus?

- A. Lighting all sides of the house and any shrubbery or building offsets.
- B. Installing lighting controls that are accessible on the exterior of the house.
- C. Installing light fixtures that are suitable for use at either interior or exterior locations.
- D. Providing lights on a clear walking path to the house from driveways or garages.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

Which of the following is an effect of wiring four loudspeakers in a series?

- A. The impedance is halved.
- B. The impedance is doubled.
- C. The impedance is tripled.
- D. The impedance is quadrupled.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

At which of the following layers of the Open System Interconnect (OSI) model does routing occur?

- A. Application
- B. Data link
- C. Physical
- D. Network

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

In the design of lighting control system, all of the following are types of lighting loads encountered EXCEPT:

- A. Fluorescent
- B. Magnetic low-voltage
- C. Incandescent
- D. Luminescent

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

Customers wish to optimize their system for video editing use. They desire a hard drive interface with the best possible throughput.

Which of the following should the technician recommend?

- A. EIDE
- B. SCSI-2
- C. IEEE-1394
- D. USB 2.0

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 48

The load of a lighting control system is calculated by:

- A. Multiplying the wattages of connected devices times 60.
- B. Adding the wattages of all connected devices.
- C. Dividing the wattages of connected devices by 60.
- D. Multiplying the amount of connected devices times 50, and then adding 10.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

Which of the following is used to balance room sound distribution in a home theater system?

- A. Oscilloscope
- B. Graphic equalizer
- C. Real time analyzer
- D. Sound pressure level

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

A standard High Definition TV (HDTV) component video cable consists of how many coaxial cables?

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

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

The purpose of a resistor is to:

- A. Measure electric current flow.
- B. Conduct current to the earth during a short circuit.
- C. Restrict the flow electric current and produce a voltage drop.
- D. Enable two or more objects to store electric energy in an electric field between them.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 52

The recommended maximum length of a segment using 10Base-T Category 5 cable is:

- A. 80 meters
- B. 100 meters
- C. 185 meters
- D. 500 meters

Correct Answer: B

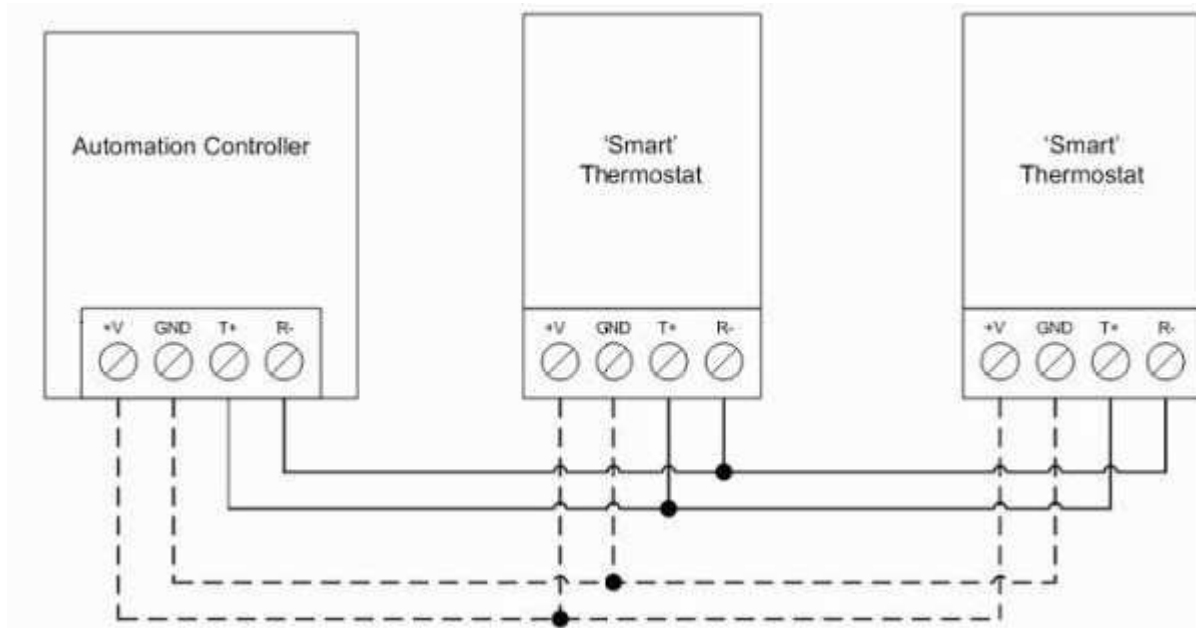
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Explanation

Explanation/Reference:

QUESTION 53

Exhibit:



The diagram shown is an example of which of the following types of wiring?

- A. Home run
- B. Star
- C. Loop
- D. Daisy chain

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 54

Bluetooth™ wireless technology is suitable for computer-to-computer communication at 1Mbps within how many meters?

- A. 10
- B. 30
- C. 100
- D. 300

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

Which of the following terms is used for inputting the customer's zip code for longitude and latitude to determine sunrise and sunset times?

- A. Astrometrical
- B. Auto sequencing
- C. Time of day
- D. Modular

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:



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