

## PrepKing

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*PrepKing-HT0-201*

## **Exam A**

### **QUESTION 1**

An optical cable is used to transmit:

- A. digital audio from a component to a receiver.
- B. analog video from a component to a receiver.
- C. analog audio from a component to a receiver.
- D. digital video from a component to a receiver.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 2**

Which of the following video outputs from a media PC provide the BEST picture quality, when connecting the media PC to a projector?

- A. SVGA
- B. VGA
- C. S-Video
- D. DVI

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 3**

Which of the following communication methods will provide the maximum bandwidth for video streaming through a media extender?

- A. 100BaseT Ethernet
- B. 802.11g
- C. Z-Wave
- D. Bluetooth

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 4**

RG-6 coaxial cable is typically used in all of the following applications:

- A. multi-room audio, telephone, intercom and temperature control.
- B. thermostat, CCTV, smoke detectors and keypads.
- C. home theater, lighting control and multi-room audio.

D. video, digital cable, and satellite applications.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 5**

Which of the following BEST describes CAT5e?

- A. Contains four pair of wires of various gauge
- B. Contains two wires in a red fireproof jacket
- C. Contains four twisted pairs of wires
- D. Contains eight wires within a thick jacket with a rip cord

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 6**

When configuring surround sound systems, speaker delay is used to compensate for speaker:



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- A. distance.
- B. power.
- C. size.
- D. efficiency.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 7**

According to Ohm's Law, which of the following is correct?

- A. As voltage increases, resistance decreases
- B. As amperage decreases, resistance decreases
- C. As resistance decreases, amperage increases
- D. As resistance increases, voltage increases

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

Each time the distance from the speaker is doubled, volume decreases by:

- A. 3dB.
- B. 6dB.
- C. 12dB.
- D. 24dB.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

The native resolution for 1080i is:

- A. 1920 x 1280.
- B. 1920 x 1080.
- C. 1280 x 1080.
- D. 1280 x 720.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

Which of the following is the primary purpose of impedance matched volume control?

- A. Maintains proper speaker phase
- B. Protects the amplifier from damage
- C. Protects the digital systems from damage
- D. Amplifies the speaker signal

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

Which of the following is a diplexer used for?

- A. Allows two satellite tuners to use the same dish.

- B. Connects the low noise block down converter (LNB) to the multi-switch.
- C. Combines satellite and over the air (OTA) signals.
- D. Allows one LNB to use two satellites.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 12**

When integrating a media server into a home theater, which of the following terms BEST describes the technology used to protect the interest of copyright holders (e.g. multimedia content)?

- A. Digital Rights Management (DRM)
- B. MPEG Layer-3 (MP3)
- C. Internet Key Exchange (IKE)
- D. Content Management System (CMS)

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 13**

Which of the following can cause ghosting in a video image?

- A. Bent pin on an S-Video cable
- B. Mislabeled component cables
- C. Defective HDMI cable
- D. Improperly terminated coax cable

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 14**

Which of the following would be the impedance of an 8 ohm and a 4 ohm speaker that are wired in parallel?

- A. 2.66 ohms
- B. Less than 1 ohm
- C. 4 ohms
- D. 12 ohms

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

Which of the following is the standard aspect ratio for HDTV?

- A. 2.35:1
- B. 4:3
- C. 1.33:1
- D. 1.78:1

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

Which of the following is the correct signal flow for an analog multi-room audio system?

- A. Source, Volume Control, Speaker, Amp
- B. Source, Amp, Volume Control, Speaker
- C. Amp, Source, Volume Control, Speaker
- D. Speaker, Amp, Volume Control, Source

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

Which of the following cabling would be MOST commonly used with digital volume controls?

- A. Unshielded twisted pair
- B. RJ-59
- C. 16/4 solid conductors
- D. Speaker Wire

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

If the speakers in an installation are out of phase, this means that:

- A. the subwoofer is at the wrong angle.
- B. the front and rear speakers are reversed.
- C. the polarity of the speakers are reversed.
- D. the angle of the speakers are incorrect.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

Which of the following is the recommended placement of the rear surround speakers in a 5.1 surround installation?

- A. Directly to the left and right and slightly in front of the listener
- B. Directly to the left and right and slightly behind the listener
- C. Above and behind the listener
- D. Directly behind the listener

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

Wires that are installed in air returns above a ceiling must be:

- A. fire proof.
- B. fiberglass coated.
- C. plenum rated.
- D. teflon coated.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

Which of the following does an astronomical time clock do?

- A. Determines the ambient light at night with a photocell.
- B. Calculates sunset and sunrise times based on geographical area.
- C. Determines the start and end of each of the seasons.
- D. Synchronizes the local time displayed with the official world time.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

When installing a security system, which of the following connectors would be used to connect the security system to the telephone service demarcation?

- A. RJ-31x
- B. RJ-11
- C. RS-232
- D. DB-9

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 23**

A customer notifies the integrator that the system keypad reports trouble at a window. Upon inspection, the customer finds the window closed and locked; the customer resets the system and it fails to correct the issue. Which of the following steps should the integrator take to resolve the issue?

- A. Check that the sensor is not misaligned.
- B. Clean the space between the sensor and the plate.
- C. Toggle the tamper switch to reset the sensor.
- D. Bypass the zone.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 24**

Which of the following is MOST likely causing an intermittent flashing LED on an IR receiver when the remote control is not being used?

- A. The power supply is faulty and should be replaced.
- B. The heat from a heating, ventilation, and air conditioning (HVAC) register is being received as infrared noise.
- C. The radio frequency interference (RFI) is being received as noise.
- D. A plasma display is emitting infrared noise.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 25**

Which of the following is a RF peer to peer mesh protocol used for lighting and other residential electronics?

- A. Z-Wave
- B. X10
- C. CEBus
- D. Wi-Fi



**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

Which of the following determines if the alarm should sound or an entry delay should start?

- A. The sensor itself
- B. The way the zones are wired
- C. The zone type
- D. The digital dialer

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

Which of the following is the correct wiring order for an RJ-11 two line jack?

- A. Black, Green, Red, Yellow
- B. Black, Red, Green, Yellow
- C. Red, Black, Green, Yellow
- D. Yellow, Red, Green, Black

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

Small in-ceiling speakers are BEST suited for:

- A. loud, bass intensive music (e.g. heavy metal, rock).
- B. providing a sub-woofer for great bass reproduction.
- C. background music and blending in with decor.
- D. the user who wants perfect sound reproduction.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

When certifying a CAT5 cable installation the integrator must perform which of the following tests?

- A. Measure Impedance
- B. Calculate Latency
- C. Measure Attenuation
- D. Measure Resistance

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 30**

When installing cables, which of the following is the BEST way of identifying the individual cables?

- A. A cable chart mounted in the cabinet
- B. A label at the tip of the cable
- C. A label within six inches at each end of the cable
- D. A penciled notation on the panel cover

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 31**

When testing wireless networks in a home, which of the following tools would be used to determine the dead spots in the house?

- A. Signal meter software
- B. IR signal level tester
- C. Tracert software
- D. CAT5 cable tester

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 32**

When a light connected to an electronic dimmer module does not function with the control button, the integrator should:

- A. look for a loose or broken wire.
- B. change the light bulbs.
- C. turn the module on manually, and check for voltage at its output terminal.
- D. reload the embedded control system software and check again.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

Which of the following is an integrators BEST tool?

- A. System documentation that is complete.
- B. A list of technical support phone numbers.
- C. A copy of the entire manufacturer's software.
- D. A copy of the work order.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 34**

Which of the following tools are commonly used to diagnose dial tone?

- A. Time Domain Reflectometer (TDR)
- B. Buttset
- C. Multi-meter
- D. Cable Tester

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

An integrator should call on technical support:

- A. only after carrying out diagnostic procedures.
- B. when the problem may be due to a poor quality product.
- C. as soon as the technician is on-site.
- D. to help diagnose the problem.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 36**

While installing an on-line enabled gaming system, the integrator verifies the gaming system is connected to the LAN, but cannot reach the Internet. Which of the following choices could provide a solution in connecting the system to the Internet?

- A. Verify the correct ports are open on the router.

- B. Verify the file transfer protocol (FTP) function is enabled and the online subscription is valid.
- C. Verify the virtual private network (VPN) is properly configured and authenticated.
- D. Verify file sharing is enabled on the personal computer.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 37**

A customer calls to complain that pressing the power on button on the home theater controller will not turn on his plasma. Which of the following should be done FIRST?

- A. Try using the original plasma remote.
- B. Recharge the home theater controller.
- C. Reboot the plasma.
- D. Check for circuit breaker power and reset if necessary.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 38**

Detailed documentation of integrated systems:

- A. is usually limited to manufacturer documentation.
- B. is relatively easy to produce.
- C. is extremely important in providing consistent service quality.
- D. contains only electrical information.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 39**

When troubleshooting a system which of the following is the FIRST step a technician should perform?

- A. Contact technical support to see if they can assist.
- B. Identify symptoms of the problem.
- C. Substitute known good equipment.
- D. Cycle power to see if the problem disappears.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

Which of the following is the purpose of a toner?

- A. Locates specific wires
- B. Measures voltage
- C. Measures strength of signals
- D. Locates breaks in the cable

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

A technician has installed a door camera and modulator in a residential installation. The technician is combining the camera channel output with the analog cable TV signal using a residential distribution/combiner amplifier. At the home the technician discovers that the camera channel picture is distorted and when the camera modulator is attached, the cable TV channels show interference. The FIRST troubleshooting step should be to:

- A. call the cable company in to check that the cable signals are within the range of zero to plus two dB at the television set.
- B. replace the camera.
- C. check the signal level from the camera modulator.
- D. check cable termination of the cable TV demarcation.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

Using a written simple wire chart/map indicates:

- A. the communication protocols over each wire.
- B. if the cable is correct, properly terminated and is certified.
- C. the proper color of the wire and device.
- D. the location, type and termination of each cable opening in the home.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

The BEST tool to troubleshoot an intermittent network wire would be:

- A. a LAN Tester.

- B. an oscilloscope.
- C. a multimeter.
- D. a toner.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 44**

Without verifying a CAT5e structured wiring installation a short or open circuit can occur and cause which of the following?

- A. Revertive pulsing
- B. Surges on the adjacent electrical system(s)
- C. Static or no signal
- D. Open air transmission

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 45**

A customer called to report that their home theater system inconsistently responds to IR commands. They have indicated that this issue occurs almost exclusively at night. Which of the following is the MOST likely source of the problem?

- A. Magnetic low voltage light fixture
- B. Incandescent light fixture
- C. Fluorescent light fixture
- D. Electronic low voltage light fixture

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 46**

A customer is complaining that they can see black bars to the sides of their widescreen TV screen when watching some channels. Which of the following is the MOST likely cause of this problem?

- A. The aspect ratio of the content being broadcast is not 16:9.
- B. The aspect ratio of the content being broadcast is not 4:3.
- C. The image needs to be stretched to fill the screen.
- D. The screen needs to have correct convergence settings.

**Correct Answer:** A

**Section:** (none)

### **Explanation**

### **Explanation/Reference:**

#### **QUESTION 47**

An uplink port on a network switch is used for which of the following?

- A. WAN connections to the Internet
- B. Wireless Access Points (WAP)
- C. CAT6 cabling
- D. Connecting to other switches

**Correct Answer:** D

**Section:** (none)

### **Explanation**

### **Explanation/Reference:**

#### **QUESTION 48**

Which term accurately describes the type of typical computer network installed in a residence?

- A. Wide Area Network (WAN)
- B. Ethernet
- C. Asynchronous Transfer Mode (ATM)
- D. Token Ring

**Correct Answer:** B

**Section:** (none)

### **Explanation**

### **Explanation/Reference:**

#### **QUESTION 49**

When setting up a router on a network which of the following should be the FIRST step to take to secure the network?

- A. Change administrator password
- B. Disable dynamic host configuration protocol (DHCP)
- C. Change the default IP Address
- D. Disable dynamic domain name system (DDNS)

**Correct Answer:** A

**Section:** (none)

### **Explanation**

### **Explanation/Reference:**

#### **QUESTION 50**

Which of the following are weaknesses of a peer-to-peer network?

- A. Each personal computer is responsible for backing up its data.

- B. Internet access is limited to the first five computers on the network.
- C. Only one printer can be shared on the network.
- D. There are no security settings for file sharing.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 51**

Which of the following household devices can cause interference in an 802.11g wireless network?

- A. 900MHz baby monitors
- B. Microwave ovens
- C. Infrared remote control
- D. 5.8GHz cordless telephones

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 52**

Which of the following characteristics applies primarily to a pure peer-to-peer network?

- A. Decentralized topology
- B. Centralized topology
- C. Client server topology
- D. D4 Framing

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 53**

Which of the following assigns IP addresses to network devices so they can communicate with each other?

- A. Domain Name Service (DNS)
- B. User Datagram Protocol (UDP)
- C. Wired Equivalent Privacy (WEP)
- D. Dynamic Host Configuration Protocol (DHCP)

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 54**

Which of the following is a reason for hiding the station set identifier (SSID)?

- A. It requires user authentication.
- B. It restricts access to a known set of devices.
- C. It reduces the risk of intruders accessing the network.
- D. It encrypts the data.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 55**

Which of the following is the BEST way to enhance the security of a residential wireless network?

- A. Not broadcasting the station set identifier (SSID)
- B. Reducing the range of the network
- C. Limiting the number of network devices
- D. Using a static IP address

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 56**

Which of the following is a valid Private Class C IP address?

- A. 133.123.212.9
- B. 10.234.234.5
- C. 192.168.0.101
- D. 192.168.0.256

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 57**

Which of the following cable types supports GigaBit Ethernet (1000 BaseT)? (Select TWO).

- A. CAT3
- B. CAT5
- C. CAT5e
- D. CAT6
- E. IEEE 1394

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 58**

A common application for using shielded twisted pair (STP) wiring is:

- A. outdoor / underground cable runs are required.
- B. high bandwidth multimedia applications running on the network.
- C. the environment is exposed to large amounts of electromagnetic interference (EMI) / radio frequency interference (RFI).
- D. high power requirements.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 59**

Domain Name Service (DNS) is used for resolving:

- A. names (e.g. comptia.org) into IP addresses.
- B. computer names (e.g. mypc) into IP addresses.
- C. MAC addresses into IP addresses.
- D. IPv4 addresses into IPv6 addresses.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 60**

When configuring remote access to a web enabled media server, an integrator needs to configure which of the following settings on a router? (Select TWO).

- A. Firewall
- B. Domain Name Service (DNS)
- C. Port forwarding
- D. URL filtering
- E. MAC filtering

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 61**

The primary role of a firewall is to:

- A. prevent spyware from being installed automatically.
- B. provide a secure connection between two devices.
- C. detect infection by web based viruses.
- D. control inbound and outbound network traffic.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 62**

Which of the following is a difference between a hub and a switch?

- A. A switch connects the devices on the network; a hub bridges an Internet modem to the network.
- B. A switch will assign dynamic IP addresses; a hub requires static IP addresses.
- C. A hub operates on the network layer of the open systems interconnection (OSI) model; a switch will operate at the application layer of the OSI model.
- D. A hub connects the devices on the network; a switch connects the devices but also sends the data directly to the correct device.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 63**

Which of the following is the commonly used port for HTTP traffic?

- A. Port 21
- B. Port 25
- C. Port 80
- D. Port 8080

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 64**

Which of the following network devices contains a WAN port?

- A. Wireless Access Point (WAP)
- B. Switch
- C. Network Interface Card (NIC)
- D. Router

**Correct Answer:** D

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 65**

Zone controlled heating, ventilation and air conditioning (HVAC) systems require which of the following?

- A. 48 volts of alternating current (A/C)
- B. Oversized ductwork
- C. Multiple thermostats
- D. Embedded controllers

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 66**

When a technician is planning the use of a security panel's auxiliary outputs, which of the following should be considered?

- A. Add the load rating of all the connected devices.
- B. Add the voltage ratings of all the connected devices.
- C. Check the installer's manual for the maximum number of devices allowed.
- D. Add the distance of the cabling to the connected devices.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 67**

A centralized lighting system has:

- A. load controllers located in every room.
- B. wireless load controllers.
- C. load controllers located in one or two locations.
- D. multiple wired and wireless controllers.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 68**

While configuring a lighting system, an integrator discovers two of the ten light switches are not responding as expected to the control commands. Which of the following choices would be the logical FIRST step in diagnosing this problem?

- A. Verify the communication layer to the switches.
- B. Replace the serial cable to the controller.
- C. Verify the electrical circuit is utilizing a 20 amp breaker.
- D. Verify RG-6 wire mapping to the switches.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 69**

Which of the following home control protocols can experience RF interference from a 2.4 gigahertz cordless phone and 802.11 b/g/n equipment?

- A. X10
- B. CEBus
- C. IR
- D. Zigbee

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 70**

Heating, Ventilation, and Air Conditioning (HVAC) thermostats use which of the following voltages for control of the heating and cooling systems?

- A. 5 Volts
- B. 12 Volts
- C. 24 Volts
- D. 48 Volts

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 71**

Which of the following is a function of an IR emitter?

- A. Encodes the IR signal
- B. Modulates the IR signal
- C. Transmits the IR signal
- D. Creates the IR signal

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 72**

The BEST interface type for home control is:

- A. touchscreen.
- B. determined by the customer.
- C. keypad.
- D. remote control.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 73**

A whole house surge protector can be used to prevent surges from which of the following? (Select THREE).

- A. Electric service feed
- B. Cable and phone service feed
- C. Static electricity
- D. Lighting strikes
- E. Electric motors
- F. Light switches

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 74**

Which of the following choices would describe the MOST widely used communications protocol in integrating a media center PC with sub-control systems within the home?

- A. TCP/IP
- B. FTP
- C. UDP
- D. SMTP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 75**

Which of the following is a common communication standard associated with serial communications?

- A. 802.11
- B. CEBus
- C. TCP/IP
- D. ASCII

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 76**

Which of the following devices would be appropriate when controlling a small motor load (e.g. ceiling fan)?

- A. 15A Rated Relay
- B. 1000W Rated incandescent dimmer
- C. 600W Rated Electronic Low Voltage (ELV) dimmer
- D. 600W Rated Magnetic Low Voltage (MLV) dimmer

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 77**

A 25 watt 12 volt lamp draws approximately:

- A. .5 amps
- B. one amp
- C. 2 amps
- D. 25 amps

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 78**

For proper equipment protection, all integrated equipment should:

- A. carry their own ground.
- B. share a common ground.
- C. be grounded at each controller location.
- D. never be grounded in a single location.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 79**

In a forced air system, a damper controller **MUST** be installed when:

- A. more than one thermostat is connected to an air exchanger.
- B. air conditioning is installed along with radiant heat.
- C. using a heat pump.
- D. more than one air conditioning compressor is used in a single installation.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 80**

Which of the following is the parameter that determines light sensitivity in a surveillance camera?

- A. Kelvin
- B. Lux
- C. Lumens
- D. MHz

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 81**

Which of the following types of video surveillance cameras will typically operate with a lower lux rating?

- A. Pinhole camera
- B. IP color camera
- C. Color camera
- D. Black & white camera

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 82**

In order to maintain continuous alarm system coverage during loss of incoming utility power, which of the following should be provided?

- A. Whole house surge suppressor
- B. Parallel power circuits



- C. Backup generator
- D. Backup battery

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 83**

Which of the following should be considered for additional power requirements?

- A. IR illumination
- B. Camera mount
- C. Lens type
- D. Backlight conditions

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 84**

An end of line resistor for a normally open sensor should be installed in:

- A. series at the control panel.
- B. parallel at the control panel.
- C. series at the last sensor on a loop.
- D. parallel at the last sensor on a loop.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 85**

Which of the following can be used to trigger video recording in surveillance applications?

- A. Motion detection
- B. General Packet Radio Service (GPRS) positioning
- C. Man-in-the-Middle attack
- D. IR illumination

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 86**

Placement of security video cameras should be governed by:

- A. the lens type, camera type and available light.
- B. the available power, ease of installation and mounting location.
- C. the mounting type, distance from monitor and size of field.
- D. the camera type, ease of installation and distance from monitor.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 87**

An example of a fire alarm system initiating device is a(n):

- A. pull station.
- B. horn strobe.
- C. annunciator.
- D. dialer.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 88**

A power supervision relay for a four wire smoke loop should be connected:

- A. at each smoke detector in the smoke loop.
- B. at the beginning of the smoke loop.
- C. at the end of each smoke loop.
- D. only when sounders are installed in the detectors.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 89**

Which of the following cameras will provide better contrast in surveillance applications?

- A. Black & White
- B. Color
- C. IR
- D. Pan Tilt Zoom (PTZ)

**Correct Answer:** A

**Section:** (none)

### Explanation

### Explanation/Reference:

#### QUESTION 90

Which of the following statements is an advantage of plain old telephone service (POTS) over VoIP?

- A. POTS phones work with PBX and key systems.
- B. POTS service is still available when there is an electrical power outage.
- C. POTS phones allow the user to call international phone numbers.
- D. POTS phones allow fax transmission.

**Correct Answer: B**

**Section: (none)**

### Explanation

### Explanation/Reference:

#### QUESTION 91

After a Key Service Unit (KSU) phone system is installed, the technician tests the system by taking line one off the hook and calling the home from a cell phone. Instead of line two ringing the installer receives a busy signal. The BEST troubleshooting step would be to:

- A. review the incoming call programming in the phone system.
- B. review the wiring for the central office lines into the phone system.
- C. review rollover settings with the phone company.
- D. review the voice mail system programming.

**Correct Answer: C**

**Section: (none)**

### Explanation

### Explanation/Reference:

#### QUESTION 92

A paging adapter is used to:



<http://www.gratisexam.com/>

- A. interface a telephone system to an external paging system.
- B. match the impedance of the external paging speaker.
- C. supply ring voltage to the external paging system.
- D. simulate a single line telephone handset.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 93**

Distributing VoIP service throughout a residence requires a(n):

- A. Ethernet network.
- B. VoIP router.
- C. cable modem.
- D. plain old telephone service (POTS) line.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 94**

A good way to avoid cross talk on a phone line is to:

- A. use long cable runs.
- B. use twisted pair cable.
- C. add additional telephone cables.
- D. use shielded unpaired cable.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 95**

A telephone system can enhance the security of a home by providing:

- A. easy transferability of phone calls within the home.
- B. intercom throughout the home.
- C. door entry two-way communications.
- D. lighted station-in-use buttons.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 96**

Which of the following protocols is commonly used in a VoIP application?

- A. Simple Key management for Internet Protocol (SKIP)
- B. Internet Control Message Protocol (ICMP)

- C. Address Resolution Protocol (ARP)
- D. Session Initiation Protocol (SIP)

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 97**

Which of the following phone system configurations uses proprietary phones to access most system features?

- A. VoIP
- B. Key system
- C. HomePlug
- D. Cellular phone

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 98**

Which of the following determines if the alarm should sound or an entry delay should start?

- A. The sensor itself
- B. The way the zones are wired
- C. The zone type
- D. The digital dialer

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 99**

A customer would like to see four cameras on the screen at a time. This process is called:

- A. multicasting.
- B. diplexing.
- C. combining.
- D. multiplexing.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 100**

When wiring multiple normally closed door contacts on a single zone, which of the following wiring conventions are correct?

- A. Each contact is wired in parallel with an end of line resistor in series.
- B. Each contact is wired in parallel with an end of line resistor in parallel.
- C. Each contact is wired in series with an end of line resistor in parallel.
- D. Each contact is wired in series with an end of line resistor in series.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 101**

A surveillance camera which can be natively viewed remotely using a web browser is usually referred to as a (n):

- A. IP camera.
- B. webcam.
- C. analog camera.
- D. CCTV camera.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 102**

Which of the following determines the minimum light requirements of a security video application?

- A. Lux rating
- B. Pixel count
- C. Focal length
- D. ISO rating

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 103**

Which of the following is the standard for RF video distribution over coaxial cable?

- A. 50 ohms
- B. 59 ohms
- C. 75 ohms
- D. 100 ohms

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 104**

Photo-electric beam sensors typically use which type of light source?

- A. IR
- B. Incandescent
- C. Laser
- D. UV

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 105**

Which of the following is a standard for security access control?

- A. Echelon
- B. CEBus
- C. Weigand
- D. NetBEUI

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 106**

Which of the following is a security device commonly fitted into doors and windows?

- A. Pressure sensor
- B. Glass break detector
- C. Magnetic contact
- D. Shock sensor

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 107**

A customer would like to monitor their backyard at night remotely. The MOST effective solution would be to:

- A. install a camera with IR illumination.

- B. install a color camera with the best low light rating.
- C. integrate backyard lighting to illuminate the backyard.
- D. use a modulator to enhance the image quality.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 108**

In CCTV applications, which of the following should be considered when specifying lenses?

- A. Monochrome or Color image
- B. Viewing angle
- C. IR illumination
- D. Video sensor type

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 109**

Which of the following is a characteristic of a network hub?

- A. A hub can be used to segment a network.
- B. A hub retransmits data to all ports.
- C. A hub connects two dissimilar networks.
- D. A hub manages bandwidth.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 110**

Which of the following is an advantage to setting up a peer-to-peer network?

- A. Files will be stored centrally
- B. Security can be administered centrally
- C. No additional server is required
- D. Backups can be run on the server

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 111**

A customer is using DSL to connect to the internet. After adding a new phone extension, the customer can no longer access the internet. Which of the following should be checked FIRST?

- A. Whether the ringer equivalency number (REN) has been exceeded.
- B. Whether the extension cable is DSL-capable.
- C. Whether the router developed a fault.
- D. Whether the new extension is connected to a DSL-filter.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 112**

Which of the following broadband technologies typically utilizes the Point to Point Protocol Over Ethernet (PPPoE) for devices directly connecting to their network?

- A. Cable
- B. DSL
- C. WiMax
- D. Satellite

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 113**

For all of the devices on a LAN segment to communicate with one another they must be on the same:

- A. subnet mask.
- B. gateway.
- C. router.
- D. switch.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 114**

Which of the following residential electronic devices can use the same frequencies as 802.11 b/g residential networking products and potentially cause interference? (Select THREE).

- A. Cordless phones
- B. ZigBee products
- C. Microwave ovens

- D. Z-wave products
- E. 802.11a products
- F. Cell phones

**Correct Answer:** ABC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 115**

Which of the following is the correct default subnet mask for a device with the IP address 192.168.0.25?

- A. 0.0.0.0
- B. 255.255.0.0
- C. 255.255.255.0
- D. 255.255.255.255

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 116**

Which of the following is the maximum length that a CAT5e cable can be in order to support 1000BaseT Ethernet?

- A. 25 meters (82 feet)
- B. 75 meters (246 feet)
- C. 100 meters (328 feet)
- D. 328 meters (1076 feet)

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 117**

Which of the following allows a user to type in an alpha-numeric string instead of manually entering a numerical IP address in a web browser?

- A. Domain Name Service (DNS)
- B. Web accelerator
- C. Dynamic Host Control Protocol (DHCP) server
- D. Subnet mask

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 118**

Which of the following commands will display the IP address, dynamic host configuration protocol (DHCP) status and MAC address of a Windows PC?

- A. IPCONFIG /ALL
- B. IPCONFIG /RENEW
- C. IPCONFIG /DIPLAYDNS
- D. IPCONFIG /FLUSHDNS

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 119**

A customer wishes to share one file from their by Documents folder on a Microsoft Windows based system. It is vital that the other documents in this folder are not shared. Which of the following methods will achieve this? (Select TWO).

- A. Move the file to a new folder and share the new folder.
- B. Right click on the file and enable simple file sharing.
- C. Place the file to be shared in the shared Documents folder.
- D. Right click on the file and choose sharing Then select the share this file option
- E. Drag and drop the file to be shared, to by Network icon.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 120**

Which of the following are features of wired equivalent privacy (WEP)?

- A. It prevents certain MAC addresses from accessing the network.
- B. It prevents an intruder from knowing whether a wireless network exists.
- C. It controls which IP addresses are being issued.
- D. It offers data encryption.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 121**

Which of the following conductor colors represents line one in a CAT5/5e telephone cable?

- A. Blue and white-blue
- B. Orange and white-orange
- C. Green and white-green
- D. Brown and white-brown

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 122**

Of the four main broadband technologies, which one is LEAST suited for real-time VoIP applications?

- A. Cable
- B. Leased Line
- C. Satellite
- D. DSL

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 123**

Which of the following BEST describes a firewall?

- A. A security component which assigns IP addresses.
- B. A security component designed primarily to prevent viruses from infecting the network.
- C. A security service designed to prevent unauthorized traffic from entering the network.
- D. A security program which monitors all local area network activity.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 124**

Which of the following standards is the BEST method for streaming high definition video over a wireless network?

- A. 802.11a
- B. Zigbee
- C. Z-Wave
- D. 802.11b

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 125**

Which of the following is the maximum theoretical speed of an 802.11b network?

- A. 6Mbps
- B. 11Mbps
- C. 54Mbps
- D. 108Mbps

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 126**

Which of the following private IP addresses is valid?

- A. 9.202.34.245
- B. 10.251.34.245
- C. 10.256.34.245
- D. 10.230.34.310

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 127**

Which of the following commands will allow a user to view the IP address that is assigned to the computer?

- A. ipconfig /release
- B. ipconfig /netstat
- C. ipconfig /showall
- D. ipconfig /all

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 128**

Which of the following does an astronomical time clock do?

- A. Determines the ambient light at night with a photocell.
- B. Calculates sunset and sunrise times based on geographical area.
- C. Determines the start and end of each of the seasons.
- D. Synchronizes the local time displayed with the official world time.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 129**

Wires that are installed in air returns above a ceiling must be:

- A. fire proof.
- B. fiberglass coated.
- C. plenum rated.
- D. teflon coated.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 130**

When certifying a CAT5 cable installation the integrator must perform which of the following tests?

- A. Measure Impedance
- B. Calculate Latency
- C. Measure Attenuation
- D. Measure Resistance

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 131**

Which of the following is MOST likely causing an intermittent flashing LED on an IR receiver when the remote control is not being used?

- A. The power supply is faulty and should be replaced.
- B. The heat from a heating, ventilation, and air conditioning (HVAC) register is being received as infrared noise.
- C. The radio frequency interference (RFI) is being received as noise.
- D. A plasma display is emitting infrared noise.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 132**

A customer notifies the integrator that the system keypad reports trouble at a window. Upon inspection, the customer finds the window closed and locked; the customer resets the system and it fails to correct the issue. Which of the following steps should the integrator take to resolve the issue?

- A. Check that the sensor is not misaligned.
- B. Clean the space between the sensor and the plate.
- C. Toggle the tamper switch to reset the sensor.
- D. Bypass the zone.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 133**

When installing a security system, which of the following connectors would be used to connect the security system to the telephone service demarcation?

- A. RJ-31x
- B. RJ-11
- C. RS-232
- D. DB-9

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 134**

Small in-ceiling speakers are BEST suited for:

- A. loud, bass intensive music (e.g. heavy metal, rock).
- B. providing a sub-woofer for great bass reproduction.
- C. background music and blending in with decor.
- D. the user who wants perfect sound reproduction.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 135**

Which of the following is a RF peer to peer mesh protocol used for lighting and other residential electronics?

- A. Z-Wave
- B. X10
- C. CEBus
- D. Wi-Fi

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 136**

Which of the following connectors are MOST commonly used with serial communications cabling?

- A. RJ-45
- B. DB-9
- C. BNC
- D. HDMI

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 137**

An outdoor lighting system is installed consisting of two lighting zones using power line carrier technology. The customer complains that the lights are not consistently responding to timed events or manual control inputs. Which of the following devices can the integrator install to help solve the problem?

- A. Whole house surge suppressor
- B. Phase coupler
- C. Uninterruptible Power Supply (UPS)
- D. Signal Attenuator

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 138**

An integrated control system is being installed into a customer's home. On the wall is a sophisticated looking thermostat with an LCD display. The customer would like to control the temperature via the integrated system. Which of the following would be the MOST important item to investigate?

- A. Whether the system is zoned.
- B. What type of system is being used (e.g. heat pump, gas, oil, etc.)
- C. Whether the thermostat can communicate with the integrated system.
- D. Whether the integrated system is heating, ventilating, and air conditioning (HVAC) compatible.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 139**

Which of the following communication methods will MOST web tablets use for connecting to a home control system?

- A. USB
- B. RS-485
- C. IR
- D. Wi-Fi

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 140**

Which of the following should be installed in a home to BEST protect the electronic devices from surges?

- A. Point of use protection and telephone protection
- B. Point of entry protection and telephone protection
- C. Point of entry protection and point of use protection
- D. Telephone and coax protection

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 141**

Which of the following characteristics is uniquely associated with an Uninterruptible Power Supply (UPS) device?

- A. Power inverter
- B. Radio frequency interference (RFI) filter
- C. Surge protection
- D. Ground fault protection

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 142**

A PC control system is different from an embedded control system in that:

- A. an embedded control system is more flexible than a PC control system.
- B. only a PC control system can be accessed remotely.
- C. a PC control system can only communicate with IP based devices.
- D. a PC can also run several applications simultaneously.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 143**

Embedded control systems:

- A. are the only systems that provide integrated environments.
- B. require IP based computers to function.
- C. have completely proprietary control software and hardware.
- D. can run multiple applications simultaneously.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 144**

Which of the following electric heating systems normally require a line voltage thermostat?

- A. Baseboard
- B. Forced air furnace
- C. Geothermal
- D. Heat pump

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 145**

Which of the following BEST describes the Z-wave Open Standard?

- A. A wireless network communication standard
- B. A wireless network lighting control standard
- C. A power line communications standard
- D. A power line lighting control standard

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 146**

Which of the following home control protocols utilizes an existing line voltage electrical wiring infrastructure for communication and control? (Select TWO)

- A. Z-Wave
- B. UPB
- C. ZigBee
- D. X10
- E. Power over Ethernet (PoE)

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 147**

Which of the following home control protocols have a maximum of 256 device addresses per network?

- A. CEBus
- B. Z-Wave
- C. Zigbee
- D. X10

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 148**

Which of the following is LEAST likely to cause IR interference?

- A. Ground connections on the IR connecting block
- B. Emitter positions on IR equipment
- C. WiFi network devices
- D. Electromotive Force (EMF) devices such as plasma displays or transformers

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 149**

A customer wants a home control system, the customer's top priority is to have access to as many features of the system from anywhere. Which of the following control interfaces BEST fits this requirement?

- A. PDA
- B. Keypad
- C. Smartphone
- D. Touch screen

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 150**

An intercom function on a key system consists of:

- A. the bridging of two or more lines together.
- B. a common path shared by all telephones.
- C. extending a call to another telephone.
- D. announcing when a call is on hold.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 151**

When the ringer equivalence number (REN) on a telephone line is exceeded:

- A. the phone will ring continuously.
- B. the dial tone will not be heard.
- C. dialing out will not function.
- D. the phone may ring, but then disconnect.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 152**

Which of the following is the correct definition of cross pinning?

- A. The pair of cables are crossing at the wrong angle.
- B. The pinning of the connector is too tight.
- C. Pin outs are incorrect at one or both of the ends of the cable.
- D. The pins of the connector are bent and touching.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 153**

Which of the following is the correct wiring order for an RJ-11 two line jack?

- A. Black, Green, Red, Yellow
- B. Black, Red, Green, Yellow
- C. Red, Black, Green, Yellow

D. Yellow, Red, Green, Black

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 154**

Cross-talk refers to the:

- A. improper termination of the conductors on the RJ-45 jack.
- B. introduction of noise on a cable from adjacent signal pairs.
- C. audible echo caused by low values of return loss.
- D. installation of voice cable too close to the electrical lines.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 155**

Which of the following kinds of internal wiring configuration is required for typical key service unit (KSU) phone systems?

- A. Star topography
- B. Daisy-chained topography
- C. Media-bus topography
- D. Token-ring topography

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 156**

Plain Old Telephone Service (POTS) arrives at the home as a(n):

- A. analog electrical loop.
- B. IP digital distribution loop.
- C. electromechanical switch.
- D. signal transmitter.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 157**

Placing a telephone call into Park mode on a Key system, does which of the following?

- A. Allows the call to be retrieved from another telephone set on the system
- B. Forwards the call to another telephone set on the system
- C. Transfers the call to another telephone set
- D. Places the call on hold, then drops the call without hanging up

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 158**

Which of the following features does a PBX/Key System have that two-line phones do not?

- A. The ability to route a call to a specific phone based on caller-id.
- B. The ability to place one line on hold and answer the other.
- C. The ability to create a 3-way call using both phone lines
- D. Receive and track caller-id per phone line.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 159**

The FIRST step in troubleshooting any subsystem at a customer's home is to check:

- A. ambient temperature.
- B. power.
- C. available spares.
- D. connectivity.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 160**

Which of the following is the MOST likely indication that a user is having Ethernet connectivity problems?

- A. No link light
- B. Blinking cursor
- C. No dial tone
- D. No MPEG-4 video

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 161**

At the conclusion of an installation, the integrator should provide the homeowner with documentation that includes: (Select TWO).

- A. length of wire used, manufacturer of devices and rack make.
- B. construction drawings, wire chart and cabinet/rack layout.
- C. all manufacturers documentation, passwords and access codes.
- D. all software, programming and coding protocols.
- E. internal before drywall photographs and installer time sheets.

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 162**

A customer has purchased a new wireless-enabled laptop computer and cannot establish a connection to their wireless network. The user has entered the correct wired equivalent privacy (WEP) key. Which of the following is the MOST likely cause for this?

- A. Media Access Control (MAC) filtering is enabled on the router
- B. Dynamic Host Configuration Protocol (DHCP) is enabled on the router
- C. Domain Name Service (DNS) is enabled on the router
- D. Demilitarized zone (DMZ) is enabled on the router

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 163**

Which of the following equipment would be used to test for continuity and resistance on a security loop?

- A. Cable tester
- B. Toner
- C. Signal generator
- D. Multimeter

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 164**

When measuring resistance, a technician is measuring the opposition to:

- A. voltage.
- B. continuity.
- C. power.
- D. current.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 165**

In a new installation of broadband, none of the computers can connect to the Internet. A router is used to connect the computers to the broadband modem. Which of the following is the correct sequence to diagnose the problem?

- A. Verify modem operation by plugging in a computer directly to the modem, verify operation of the router, verify proper setup of dynamic host configuration protocol (DHCP), and verify proper setup of computer settings.
- B. Verify proper setup of computer settings, verify operation of the router, verify proper setup of DHCP, and verify modem operation by plugging in a computer directly to the modem.
- C. Verify operation of the router, verify modem operation by plugging in a computer directly to the modem, verify proper setup of DHCP, and verify proper setup of computer settings.
- D. Verify proper setup of DHCP, verify modem operation by plugging in a computer directly to the modem, verify operation of the router, and verify proper setup of computer settings.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 166**

The customer is not able to access their media server remotely. Which of the following is the FIRST step the integrator should take when troubleshooting the problem?

- A. Verify that the media server is running the latest software updates
- B. Make sure the entertainment equipment is turned on
- C. Verify local access to the media server
- D. Make sure the firewall on the computer is turned off

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 167**

A customer states that the speakers in the kitchen are not working. Which of the following are the correct steps that an integrator should follow to troubleshoot this problem?

- A. Make sure the power is turned on, set volume to high and replace the volume control.
- B. Make sure all components have power, use a multi-meter to check for resistance, and replace one speaker.



- C. Replace the volume control, run a new wire to the kitchen and set volume to high.
- D. Make sure all components have power, check all connections, and swap speaker wires from a known working channel.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 168**

Which of the following tools would be appropriate to measure the resistance of a circuit?

- A. Telephone Buttset
- B. Multi-meter
- C. Signal Generator
- D. Cable Tester

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 169**

When troubleshooting an isolated problem in a complex integrated system, it is BEST to:

- A. review all information concerning all the sub systems.
- B. segregate the systems to minimize the search area.
- C. contact technical support.
- D. check cable connections at all demarcation points.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 170**

Which of the following would be used to determine how much voltage is on a wire?

- A. Toner
- B. Time Domain Reflectometer (TDR)
- C. Signal Generator
- D. Multi-meter

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 171**

Which of the following would be used to determine where a break in a wire is located?

- A. Analog Toner
- B. Time Domain Reflectometer (TDR)
- C. Digital Multi-meter (DMM)
- D. Digital Signal Generator

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 172**

When verifying a structured wiring installation which of the following activities is MOST often a critical part of the process?

- A. Use Coax cables for voice/data traffic
- B. Aesthetic color matching of wall plates
- C. Packet sniffing the network
- D. Properly labeling cabling

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 173**

Properly labeling wires during installation:

- A. reduces overall labor costs for construction.
- B. saves time writing documents that list all the wires and their numbers.
- C. prevents overloading of circuits when installed properly.
- D. allows for efficient changing or modifying of the system at a later date.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 174**

The technician has connected a new HD DVD player with HDMI output to an old plasma display that only has a DVI input. The technician uses a DVI HDMI cable. The DVD player is configured to use its HDMI output, but the technician cannot get any picture on the plasma. Which of the following is the MOST likely cause of the problem?

- A. The DVD is encoded only in standard definition
- B. The plasma display is not HDCP compatible

- C. The cable is not CL2 compatible.
- D. The DVI ?HDMI cable is not compatible with the DVD player.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 175**

A multi-meter is used to check for open circuits by which of the following tests?

- A. Amperage level
- B. Ohms resistance
- C. Voltage level
- D. RF level

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 176**

Which of the following methods is best practice for delivering access codes to the homeowner?

- A. Show them how to set their own codes and allow them to do this privately.
- B. Set the access code to something the customer will remember and tell them to write it down.
- C. Leave the code set to factory default and highlight the code in the manufacturer's manual.
- D. Ask the customer what access code they would like and set it for them.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 177**

Which of the following video connections are listed from the least desirable to the most desirable?

- A. Composite, S-Video, Component, HDMI
- B. S-Video, HDMI, Composite, Component
- C. Component, S-Video, Composite, HDMI
- D. HDMI, Component, S-Video, Composite

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 178**

Which of the following percentages of power loss is equivalent to a 3dB loss?

- A. 15%
- B. 33%
- C. 50%
- D. 75%

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 179**

The frequency produced by a subwoofer is so low, it is considered to be:

- A. out-of-phase.
- B. directional.
- C. passive.
- D. nondirectional.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 180**

Which of the following is the impedance of two, four ohm speakers wired in a series?

- A. one ohm
- B. 2 ohms
- C. 8 ohms
- D. 16 ohms

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 181**

Digital Rights Management (DRM) imposes restrictions on which of the following?

- A. Loading applications on a PC
- B. Copying home videos
- C. Backing up a commercially produced DVD
- D. Downloading personal photos

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 182**

Which device creates a signal which is compatible with a standard television tuner?

- A. Encoder
- B. Modulator
- C. Multi-switch
- D. Multiplexer

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 183**

Which of the following requires a low noise block down converter (LNB)?

- A. Cable
- B. VoIP
- C. Satellite
- D. DVD

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 184**

A user has multiple satellite receivers; one of the rooms is not receiving a signal while all other rooms are receiving a signal. Assuming the receivers are working correctly, which of the following should be tested FIRST to find the problem?

- A. Dish
- B. Multi-switch
- C. Diplexer
- D. Grounding block

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 185**

Enabling zoom mode will fill the entire width of a widescreen display but can cause image:

- A. burn-in.

- B. shrinking.
- C. letterboxing.
- D. cropping.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 186**

Which of the following will determine the gauge of the speaker wire that should be used?

- A. Type of volume control
- B. Distance to the speaker
- C. Impedance of the speaker
- D. Frequency response of the speaker

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 187**

Which of the following video display technologies uses a high-intensity bulb that burns out over time?

- A. Plasma
- B. LCD panel
- C. CRT
- D. DLP

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 188**

Which of the following is considered an uncompressed format?

- A. MP3
- B. WAV
- C. AVI
- D. FLAC

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 189**

Which of the following is a specific example of a media server?

- A. A DVD changer with an HDMI port
- B. A music player with an auxiliary output
- C. A HD cable box with 1080i DVR capability
- D. Any device which stores and distributes digital content

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 190**

DVI-I cables can carry digital video and:

- A. analog video.
- B. power.
- C. analog audio.
- D. digital audio.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 191**

A homeowner desires to stream digital music to an outdoor amplifier. There is no existing cable run to the amplifier located 150 feet (45.7 meters) away. Which wireless technology is BEST suited for this application?

- A. IR
- B. Bluetooth
- C. ZigBee
- D. 802.11 a/b/g

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 192**

A satellite system is installed in a home that previously had cable TV. The system is using the existing cable runs, but having a problem receiving satellite signal on the receivers. Which of the following would be checked FIRST?

- A. Check all F connectors.
- B. Check all coax cable for continuity.
- C. Adjust dish three degrees.

D. Check for unknown splitters.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 193**

Which of the following cabling would be MOST commonly used with analog volume controls?

- A. Shielded twisted pair (STP)
- B. RJ-59
- C. 16/4 solid conductors
- D. 14/4 stranded

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 194**

Which of the following display types are the MOST prone to image burn-in?

- A. Plasma
- B. Liquid-Crystal-on-Silicon (LCoS) Display
- C. Liquid Crystal Display (LCD)
- D. Digital Light Processing (DLP)

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 195**

When configuring surround sound systems, speaker delay is used to compensate for speaker:

- A. distance.
- B. power.
- C. size.
- D. efficiency.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 196**

When a light connected to an electronic dimmer module does not function with the control button, the integrator



should:

- A. look for a loose or broken wire.
- B. change the light bulbs.
- C. turn the module on manually, and check for voltage at its output terminal.
- D. reload the embedded control system software and check again.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 197**

Which of the following is the BEST way to enhance the security of a residential wireless network?

- A. Not broadcasting the station set identifier (SSID)
- B. Reducing the range of the network
- C. Limiting the number of network devices
- D. Using a static IP address

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 198**

Which of the following is a common communication standard associated with serial communications?

- A. 802.11
- B. CEBus
- C. TCP/IP
- D. ASCII

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 199**

A surveillance camera which can be natively viewed remotely using a web browser is usually referred to as a (n):

- A. IP camera.
- B. webcam.
- C. analog camera.
- D. CCTV camera.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 200**

When measuring resistance, a technician is measuring the opposition to:

- A. voltage.
- B. continuity.
- C. power.
- D. current.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 201**

A homeowner desires to stream digital music to an outdoor amplifier. There is no existing cable run to the amplifier located 150 feet (45.7 meters) away. Which wireless technology is BEST suited for this application?

- A. IR
- B. Bluetooth
- C. ZigBee
- D. 802.11 a/b/g

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 202**

According to Ohm's Law, which of the following is correct?

- A. As voltage increases, resistance decreases
- B. As amperage decreases, resistance decreases
- C. As resistance decreases, amperage increases
- D. As resistance increases, voltage increases

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 203**

Which of the following does an astronomical time clock do?

- A. Determines the ambient light at night with a photocell.

- B. Calculates sunset and sunrise times based on geographical area.
- C. Determines the start and end of each of the seasons.
- D. Synchronizes the local time displayed with the official world time.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 204**

Which of the following is the correct wiring order for an RJ-11 two line jack?

- A. Black, Green, Red, Yellow
- B. Black, Red, Green, Yellow
- C. Red, Black, Green, Yellow
- D. Yellow, Red, Green, Black

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 205**

A customer is complaining that they can see black bars to the sides of their widescreen TV screen when watching some channels. Which of the following is the MOST likely cause of this problem?

- A. The aspect ratio of the content being broadcast is not 16:9.
- B. The aspect ratio of the content being broadcast is not 4:3.
- C. The image needs to be stretched to fill the screen.
- D. The screen needs to have correct convergence settings.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 206**

Heating, Ventilation, and Air Conditioning (HVAC) thermostats use which of the following voltages for control of the heating and cooling systems?

- A. 5 Volts
- B. 12 Volts
- C. 24 Volts
- D. 48 Volts

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 207**

Photo-electric beam sensors typically use which type of light source?

- A. IR
- B. Incandescent
- C. Laser
- D. UV

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 208**

Which of the following home control protocols utilizes an existing line voltage electrical wiring infrastructure for communication and control? (Select TWO)

- A. Z-Wave
- B. UPB
- C. ZigBee
- D. X10
- E. Power over Ethernet (PoE)

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 209**

The FIRST step in troubleshooting any subsystem at a customer's home is to check:

- A. ambient temperature.
- B. power.
- C. available spares.
- D. connectivity.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 210**

Which of the following video connections are listed from the least desirable to the most desirable?

- A. Composite, S-Video, Component, HDMI
- B. S-Video, HDMI, Composite, Component

- C. Component, S-Video, Composite, HDMI
- D. HDMI, Component, S-Video, Composite

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 211**

Which of the following requires a low noise block down converter (LNB)?

- A. Cable
- B. VoIP
- C. Satellite
- D. DVD

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 212**

A satellite system is installed in a home that previously had cable TV. The system is using the existing cable runs, but having a problem receiving satellite signal on the receivers. Which of the following would be checked FIRST?

- A. Check all F connectors.
- B. Check all coax cable for continuity.
- C. Adjust dish three degrees.
- D. Check for unknown splitters.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 213**

Which of the following can cause ghosting in a video image?

- A. Bent pin on an S-Video cable
- B. Mislabeled component cables
- C. Defective HDMI cable
- D. Improperly terminated coax cable

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 214**

Which of the following devices would be appropriate when controlling a small motor load (e.g. ceiling fan)?

- A. 15A Rated Relay
- B. 1000W Rated incandescent dimmer
- C. 600W Rated Electronic Low Voltage (ELV) dimmer
- D. 600W Rated Magnetic Low Voltage (MLV) dimmer

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 215**

Which of the following conductor colors represents line one in a CAT5/5e telephone cable?

- A. Blue and white-blue
- B. Orange and white-orange
- C. Green and white-green
- D. Brown and white-brown

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 216**

A satellite system is installed in a home that previously had cable TV. The system is using the existing cable runs, but having a problem receiving satellite signal on the receivers. Which of the following would be checked FIRST?

- A. Check all F connectors.
- B. Check all coax cable for continuity.
- C. Adjust dish three degrees.
- D. Check for unknown splitters.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 217**

According to Ohm's Law, which of the following is correct?

- A. As voltage increases, resistance decreases
- B. As amperage decreases, resistance decreases

- C. As resistance decreases, amperage increases
- D. As resistance increases, voltage increases

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 218**

Which of the following is the correct signal flow for an analog multi-room audio system?

- A. Source, Volume Control, Speaker, Amp
- B. Source, Amp, Volume Control, Speaker
- C. Amp, Source, Volume Control, Speaker
- D. Speaker, Amp, Volume Control, Source

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 219**

Which of the following is MOST likely causing an intermittent flashing LED on an IR receiver when the remote control is not being used?

- A. The power supply is faulty and should be replaced.
- B. The heat from a heating, ventilation, and air conditioning (HVAC) register is being received as infrared noise.
- C. The radio frequency interference (RFI) is being received as noise.
- D. A plasma display is emitting infrared noise.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 220**

When certifying a CAT5 cable installation the integrator must perform which of the following tests?

- A. Measure Impedance
- B. Calculate Latency
- C. Measure Attenuation
- D. Measure Resistance

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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