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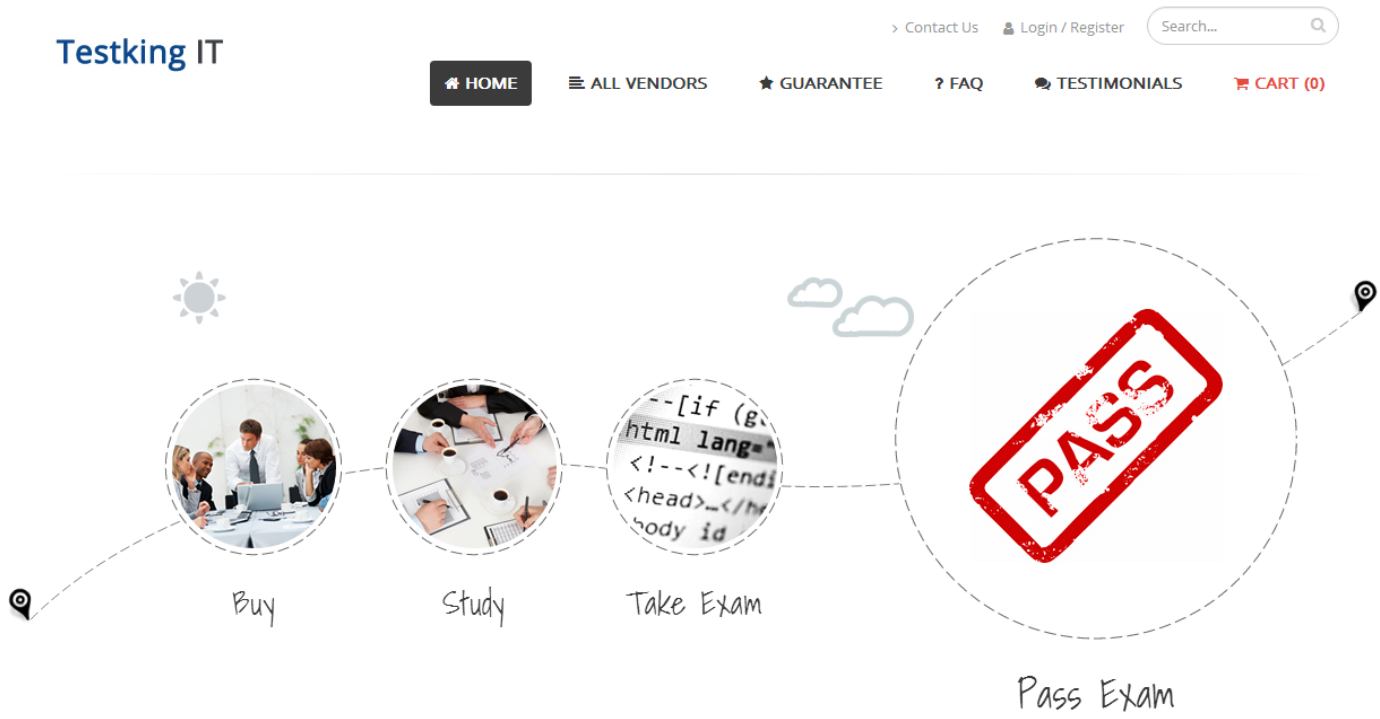

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Exam : MSC-121

Title : Design WLan Solutions

Vendors : Motorola Solutions

Version : DEMO

NO.1 In radio frequency transmission the term Modulation Coding Scheme (MCS) is defined by which of the
following?
A. The combination of digital modulation method and a forward error correction mechanism.
B. A set of AES/CCMP cipher modes which assure integrity of an OFDM transmission.
C. The use of an encryption algorithm to securely code a modulated signal before transmission.
D. A multiplexing technique that uses orthogonal codes in place of X.509 digital certificates for message
validation.
Answer: A

NO.2 You are assigned the task of evaluating a wireless network. While using a layer 2 wireless LAN
analysis capture tool you notice support of a minimum rate of 6 Mbps. What IEEE 802.11 standard or
amendment to the standard operating in the U-NII band is in use on the company's WLAN (select TWO)?
A. 802.11
B. 802.11b
C. 802.11n
D. 802.11g
E. 802.11a
Answer: C,E

NO.3 Which of the following duplexing methods is used by the radios in Motorola's WLAN products?
A. Half-duplex
B. Full-duplex
C. Simplex
D. Half-duplex Tx / Full-duplex Rx
E. Full-duplex Tx / Ha lf-duplex Rx
Answer: A

NO.4 You have been assigned to design a new IEEE wireless LAN that will require six access points for both
coverage and capacity. Based on expected client device usage, it has been determined the 2.4 GHz ISM band will be the most appropriate for this deployment. Without taking any

specific local
regulatory domain into consideration, how many channels are available for selection in the 2.4 GHz ISM band?
A. 3
B. 6
C. 11
D. 14
E. 23
Answer: D

NO.5 Which of the following must occur prior to a WLAN client device being assigned a TCP/IP address
through DHCP?
A. Successful 802.11 roaming
B. Successful 802.11 association
C. Successful 802.11 authentication
D. Successful 802.11 probe response
Answer: B

NO.6 You are designing a new 802.11 installation that will be built on an IEEE 802.3 10/100/1000
BaseT-backbone infrastructure. All IEEE 802.11n access points and VoIP phones will be IEEE
802.3 Power over Ethernet (PoE) powered devices. The 802.11n access points will utilize dual band 3X3
MIMO and require 802.3at PoE. Which is a true statement regarding a WLAN deployment of this nature?
A. This installation can only use endpoint Power Sourcing Equipment (PSE) devices.
B. Only IEEE 802.3af PoE devices can operate on a Gigabit network infrastructure.
C. VoIP phones and access points cannot be located on the same access layer PoE switches.
D. An accurate power sourcing equipment (PSE) power budget must be performed.
Answer: D

NO.7 You are a network design engineer and are assigned to provide an enterprise S02.1X/EAP solution to
secure your company's IEEE 802.11n WLAN. What networking protocol/service that provides centralized

Authentication, Authorization, and Accounting (AAA) management for computers to connect and use
wireless network resources can be implemented?
A. Secure Shell (SSH)
B. Public Key Infrastructure (PKI)
C. Virtual Private Networking (VPN)
D. Wi-Fi Protected Access (WPA) Passphrase
E. Remote Authentication DialinUser Service (RADIUS)
Answer: E

NO.8 Which of the following terms refers to the strength of an emitted RF signal measured at its strongest
point?
A. EIRP (Equivalent Isotropic Radiated Power)
B. 1FZ (First Fresnel Zone)
C. Azimuth
D. dBi
E. IR (Intentional Radiator)
Answer: A

NO.9 You are responsible for designing an 802.11n controller based wireless LAN for your organization
using independent access point technology, The Information Technology team has decided the wireless
LAN controllers should be installed on the core layer at the headquarters office location configured for
centralized forwarding. Which statements are true concerns with respect to this type of installation (select
TWO)?
A. S02.11n independent access points require the controller be installed at the network access layer only.
B. The WLAN controller at the core layer may be a bottleneck and limit scalability if not properly planned.
C. Network core layer deployments should always use 10 Gigabit (or faster) Ethernet components.
D. With centralized forwarding enabled all wireless traffic is tunneled to the WLAN controller that is
connected to the network core layer.

Answer: B,D

NO.10 You are a computer network consultant at a small medical office and responsible for the design and
deployment of the IEEE 802.11b/g WLAN. Some of the users of the WLAN are complaining about the
performance of the network. You use a layer 2 WLAN analyzer to view the frames traversing the wireless
medium to see if you can determine the problem. After careful examination of the data recorded you
notice a significant amount of CTS-to-Self frames. What is a potential reason for the high number of these
frame types?
A. The access points are in OFDM only mode
B. The access points support Quality of Service
C. The access points are in HR/DSSS only mode
D. The access points are in ERP protection mode
Answer: D

NO.11 XYZ Company is deploying a companywide Motorola Solutions wireless infrastructure. The following
list is a breakdown of XYZ Company facilities with the number of access points required for each location:
-Corporate HQ: 36 AP -Distribution Centers (3): 48 AP each -Warehouses (5): 34, 64, 28, 12, 20 AP
respectively -Satellite offices (25): 1-2 AP each. -Stores (1100): 3-4 AP each.
XYZ is looking for the most cost effective solution, while still being able to manage and configure the
system centrally. Which of the following would you recommend?
A. AP7131s at each location.
B. NX9000 at Corporate HQ and AP7131's at all locations.
C. NX9000 at Corporate HQ, RFS6000 and AP650 at locations with more than 24 AP's, AP6532 at
locations with less than 24 AP's.
D. 4 RFS7000 at Corporate HQ, RFS6000 and AP650 at locations with 24 or more AP's, AP6532 at
locations with less than 24 AP's.
E. NX9000 at Corporate HQ, RFS7000 and AP650 at locations with more than 24 AP's,

AP7131 at
locations with up to 24 AP's.
Answer: C

NO.12 The IEEE 802.lln amendment to the standard addresses several PHY layer enhancements. One of
these enhancements is "Channel Bonding" allowing for 40 MHz wide channels. Without taking any
specific local regulatory domain into consideration, what is the maximum number of non-overlapping 40
MHz wide channels that can exist in the 2.4 GHz ISM band.?
A. 1
B. 2
C. 3
D. 6
E. 11
F. 20
Answer: A

NO.13 Which of the following situations would force a wireless client to renew its IP address?
A. Roaming between two BSSIDs assigned to the same VLAN
B. Roaming between controllers supporting the same VLANs
C. Roaming between two BSSIDs assigned to different VLANs
D. All of the above would force a client to renew its IP address
Answer: C

NO.14 Which of the following statements is CORRECT concerning the IEEE 802.11 Open Authentication
procedure?
A. Uses four way frame exchange
B. Is optional before additional authentication
C. May occur after the association
D. Must occur before additional authentication
Answer: D

NO.15 Network Layer TCP/IP packets that are prepared to be sent across the 802.11 wireless medium are
commonly known as which of the following?

A. MAC service data unit
B. MAC protocol data unit
C. LLC sub-layer data unit
D. MAC service switch unit
E. PHY layer service data unit
Answer: A