

## Passguide 500-215 41q

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500-215

SP Mobility Technology Systems Engineer Representative



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## **Exam A**

### **QUESTION 1**

How many Packet Service Cards are located in a fully loaded Cisco ASR 5000 chassis?

- A. 8
- B. 14
- C. 16
- D. 24

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

### **QUESTION 2**

Which option is the unique differentiator that sets Cisco ASR 5000 apart from competitors?

- A. seamless interoperability with GGSN
- B. cost-effective evolution to 2G
- C. combines 2G, 3G, and 4G SGSN into the same platform
- D. P2P detection and control

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

### **QUESTION 3**

On the Cisco ASR 5000, which three features help to ensure high availability? (Choose three.)

- A. inter-chassis redundancy
- B. online software upgrades are not supported
- C. no single point of failure

- D. virtual memory protects software tasks
- E. terminated tasks have to be manually restarted
- F. no session recovery for common services

**Correct Answer:** ACD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 4**

Which controller task is used to facilitate IP routing across and within contexts?

- A. Session Controller
- B. VPN Controller
- C. Driver Controller
- D. Resource Manager Controller

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 5**

Which bus interconnects RCCs and line cards?



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- A. control bus
- B. system management bus

- C. TDM bus
- D. redundancy bus

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 6**

How many VLAN tags may contain each physical port on an Ethernet 1000 line card?

- A. up to 124
- B. up to 1024
- C. up to 1820
- D. up to 2000

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 7**

What is the subsystem task that is responsible for performing a centralized IMSI lookup?

- A. MME Manager
- B. MME Demux Manager
- C. Session Manager
- D. IMSI Manager

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 8**

Which option lists the types of card that fit into the front of the Cisco ASR 5000 chassis?

- A. gigabit Ethernet cards
- B. fan cards and line cards
- C. line cards and application cards
- D. system management cards and packet service cards

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 9**

Which option is a characteristic of the online software upgrade on the Cisco ASR 5000 Series?

- A. The online upgrade allows active sessions to be maintained until they are self-terminated (subscriber ends the session) or meet the optionally defined upgrade-limit values.
- B. The system accepts new sessions during the online upgrade.
- C. The final step is to migrate active PSCs to standby PSCs.
- D. The online upgrade should not be performed during a planned maintenance window.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 10**

Which two descriptions of the Cisco ASR 5000 are true? (Choose two.)

- A. ideal for medium throughput deployments
- B. can be marketed for all 3G deployments
- C. highly centralized architecture
- D. can be marketed for all 4G deployments

- E. target subs 3M to 10M per chassis
- F. 15G 80G performance

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Topic 2, Command Line Interface

#### **QUESTION 11**

What level of User Privilege is required to create new user accounts on the Cisco ASR 5000 platform?

- A. operator
- B. inspector
- C. security administrator
- D. exec

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 12**

Which three sections are standard CLI command prompts on the Cisco ASR 5000? (Choose three.)

- A. software version indicator
- B. system host name
- C. command mode indicator
- D. time stamp indicator
- E. user privilege indicator

**Correct Answer:** BCE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 13**

Which Cisco GGSN task is used to generate a list of current session manager tasks to aid in system recovery?

- A. imsimgr
- B. aamgr
- C. sessmgr
- D. gtpcmgr

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 14**

Which two statements about the PMM-DETACHED state are true? (Choose two.)

- A. The Mobile Subscriber and SGSN contexts hold no valid location or routing information for the Mobile Subscriber.
- B. The Mobile Subscriber location is known in the 3G SGSN with an accuracy of a serving RNC.
- C. The serving RNC tracks the location of the Mobile Subscriber.
- D. A 3G SGSN cannot reach the Mobile Subscriber location because the location is unknown.
- E. Signaling towards the HLR is needed if the 3G SGSN does not have an MM context for this Mobile Subscriber.
- F. The Mobile Subscriber performs a routing area update if the routing area changes.

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 15**

Which option is one of the three identifiers of the area ID?

- A. MME
- B. SWG
- C. TAC
- D. GUTI

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 16**

Which statement about SGSN when it is serving a 2G network is true?

- A. In the 2G environment, the SGSN must connect to the BSS via a "physical" circuit.
- B. Less is required of the SGSN when it is serving a 2G network.
- C. The SGSN communicates with RNC when serving a 2G network.
- D. None of the management tasks that are handled in the 3G environment by the RNC are tasked to the SGSN in the 2G environment.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 17**

What did Cisco create to address the issues raised with SGSNs without moving to Direct Tunnel?

- A. per-application flow policing
- B. seamless evolution path to LTE/EPC
- C. mobile Internet NPU fast path feature
- D. mobile traffic caching feature

**Correct Answer:** C

**Section:** (none)

**Explanation**



**Explanation/Reference:**

Explanation:

**QUESTION 18**

How many operator policies are supported?

- A. as many as 500
- B. as many as 1000
- C. as many as 1500
- D. as many as 2000

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 19**

Which logical interface is the communications path between the SGSN and the Cisco GGSN?

- A. Gn interface
- B. IuPS interface
- C. Gi interface
- D. MAP interface

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 20**

What feature is used to bypass SGSN on data path?

- A. mobile Internet fast path
- B. direct tunnel

- C. GTP-U tunnel
- D. two tunnel

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 21**

What is the name of the logical interface between SGSN and BSC nodes?



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- A. Gn
- B. Gr
- C. Gb
- D. Iu-PS

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 22**

What is the service application called in the 2G environment?

- A. GPRS service
- B. SGSN service
- C. SGSN application

D. SGTP service

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 23**

Which three are SGSN GPRS Mobility Management procedures? (Choose three.)

- A. GPRS Attach
- B. Authentication
- C. PDP Context Activation
- D. Routing Area Update
- E. QoS Control
- F. PDP Context Deactivation

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Topic 4, Billing and Statistics

**QUESTION 24**

Which statement is a characteristic of the GTPP group configuration?

- A. GTPP groups are not configured in a context.
- B. Only five groups can be created in addition to the default group.
- C. The GTPP group configuration submenu allows you to specify a set of behavior parameters for the CDR collection and transmission activities.
- D. When configuring communication to a CGF, up to eight servers can be configured in the GTPP group.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 25**

What is the main function of cluster mode support?

- A. Generate CDR data files for billing systems that do not have a direct billing interface to a GSN system
- B. Manage the GSS operations
- C. Process and store the information that is received from the GSN system and the records that the GSS application generates
- D. Enable support for multiple GSS nodes that are clustered to provide high availability and critical redundancy

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 26**

What does CDR stand for within the context of GTPP billing?

- A. connection duration record
- B. connection detail record
- C. call duration record
- D. call detail record

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 27**

How do you configure the system to store CDRs on the local GTPP Storage Server?

- A. Execute the storage-server mode command
- B. Execute the gtp storage-server mode command

- C. Execute the gtp storage-server local file command
- D. Execute the storage-server mode local command

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 28**

Which of these are considered historical summary reports?

- A. Monthly reports
- B. Top N reports
- C. Average reports
- D. Statistical reports

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Topic 5, Alarms and Troubleshooting

#### **QUESTION 29**

Which of these is a characteristic of the Alert model?

- A. A value is monitored when the value reaches or exceeds the configured high threshold within the specified polling interval.
- B. A value is monitored for both low and high thresholds.
- C. You will see a "clear" entry in the log when the low threshold value is crossed.
- D. You will see no more outstanding items after the low threshold value is crossed.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Topic 6, InLine Services and Other Functions

**QUESTION 30**

When used as an in-line service, the Content Steering service has which two characteristics? (Choose two.)

- A. Directs subscriber traffic into the ECS subsystem
- B. Uses ACLs to control the flow of packets into and out of the system
- C. Examines uplink and downlink traffic
- D. Is responsible for analyzing the individual protocol fields during inspection
- E. Uses multiple servers
- F. Can inspect and maintain a state across various protocols at all layers of the OSI stack

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 31**

Which option describes one main benefit of the Cisco ASR 5000 inline services?

- A. It helps to define, engineer, and optimize network.
- B. Proactive diagnostic capabilities increase network availability.
- C. It provides comprehensive remote monitoring and issue resolution.
- D. It allows you to manage network and services in real time.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 32**

Which in-line service do most customers currently use?

- A. traffic characterization
- B. rate-limiting
- C. enhanced charging
- D. content filtering

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 33**

In which two ways do subscriber-aware stateful firewalls complement Internet firewalls? (Choose two.)

- A. resolves the stateless issue with Internet firewalls
- B. provides QoS support on a per-subscriber or per-group basis
- C. provides granular support for per-subscriber or per-group firewall rules
- D. enables user-specific event correlation
- E. enables user-specific throttling

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Topic 7, LTE EPC Service Overview and Call Flows

**QUESTION 34**

How many QoS Class Identifiers are defined in LTE technology?

- A. 6
- B. 9
- C. 15
- D. 21

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 35**

Which reference point is used between the UTRAN and the Serving Gateway for user plane tunneling when a direct tunnel is established?

- A. S4
- B. S12
- C. S8a
- D. S5

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 36**

Which type of Cisco ASR 5000 service is needed for communication between a Cisco MME and a Serving Gateway?

- A. eGTP
- B. SGW
- C. GTPU
- D. PGW

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 37**



Which subsystem task is responsible for distributing the SCTP between the eNodeB and the MMEGR tasks?

- A. MME Manager
- B. MME Demux Manager
- C. Session Manager
- D. IMSI Manager

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 38**

What three functions can be performed by a Cisco PGW? (Choose three.)

- A. MME Selection for Handovers with MME Change
- B. UE IP Address Allocation
- C. Policy Enforcement
- D. Deep Packet Inspection
- E. Tracking Area List Management
- F. Non Access Stratum Signaling

**Correct Answer:** BCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 39**

Which types of Cisco ASR 5000 services are needed for communication between a Serving Gateway and Packet Data Network Gateway?

- A. EGTP and SGW
- B. EGTP and GTPU
- C. SGW and GTPU
- D. GTPU and PGW

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 40**

Which two capabilities are part of the MME solution? (Choose two.)

- A. 1:n redundancy
- B. rich VPN features
- C. extensive QoS functionality
- D. content filtering
- E. intelligent paging

**Correct Answer:** AE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 41**

LTE was introduced in which 3GPP release?

- A. 6
- B. 7
- C. 8
- D. 9

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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