

600-210^{Q&As}

Implementing Cisco Service Provider Mobility UMTS Networks

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QUESTION 1

An airport is providing free one-hour mobile Internet service for passengers. At the end of the free onehour service, the PCRF sends a Diameter command to the mobile packet core to stop the free service. Which Diameter command is sent by the PCRF?

- A. CCR-U
- B. RAR
- C. CCR-T
- D. STA
- E. RAA

Correct Answer: B

QUESTION 2

| Drag the SCCP Services on the left to match the corresponding protocol class on the right. | |
|--|---------|
| Basic connection-oriented | Class 0 |
| Error recovery and flow control connection oriented | Class 1 |
| Basic connectionless | Class 2 |
| Sequenced connectionless | Class 3 |
| Flow control connection oriented | Class 4 |

Select and Place:

| Drag the SCCP Services on the left to match the corresponding protocol class on the right. | |
|--|---------|
| Basic connection-oriented | Class 0 |
| Error recovery and flow control connection oriented | Class 1 |
| Basic connectionless | Class 2 |
| Sequenced connectionless | Class 3 |
| Flow control connection oriented | Class 4 |

Correct Answer:

Drag the SCCP Services on the left to match the corresponding protocol class on the right.

| | |
|--|---|
| | Basic connectionless |
| | Sequenced connectionless |
| | Basic connection-oriented |
| | Flow control connection oriented |
| | Error recovery and flow control connection oriented |

QUESTION 3

For inbound Inter-System RAU, which message sends the SGW change indication to the old SGSN?

- A. context request
- B. context response
- C. context acknowledgment
- D. modify bearer request
- E. modify bearer response

Correct Answer: C

QUESTION 4

Which option lists the correct order of the SS7 routing flow in the Cisco ASR 5000 SGSN system?

- A. The call control profile is checked for any rejection, then the map-service is checked for any form of routing definitions.
- B. The map-service is checked for any form of routing definitions, then the call control profile is checked for any rejection.
- C. The call control profile is checked for any rejection, then the SGSN-Service is checked for any rejection.
- D. The SGSN service is checked for any rejection, then the call control profile is checked for any rejection.

Correct Answer: A

QUESTION 5

How does an S4-SGSN identify a peer node as an SGSN or MME when GUTI-to-RAI mapping is unavailable?

- A. MSB of the LAC value
- B. MSB of the RAC value
- C. LSB of the LAC value
- D. LSB of RAC value

Correct Answer: A

QUESTION 6

Which option describes how DNS snooping is used on the Cisco ASR 5000?

- A. DNS snooping allows the Cisco ASR 5000 to snoop DNS query packets and compare against known DNS responses. If a match is found, the Cisco ASR 5000 replies to the query itself instead of forwarding the query to the destination DNS server.
- B. DNS snooping allows the Cisco ASR 5000 to detect if a DNS response sent back to a subscriber is valid. If the response is invalid, the Cisco ASR 5000 drops the packet.
- C. DNS snooping allows the Cisco ASR 5000 to enable set of dynamic IP rules to be installed based on the response to DNS queries sent by a subscriber that matches a configured domain rule definition. Dynamic IP rules are created for these IP entries within the same rule that has the domain name, which applies the same charging action to these dynamic rules.
- D. DNS snooping allows the Cisco ASR 5000 to enable set of dynamic domain rules to be installed based on the response to DNS queries sent by a subscriber that matches a configured domain rule definition. Dynamic domain rules are created for the DNS responses within the same rule that has the domain name, which applies the same charging action to these dynamic rules.

Correct Answer: C

QUESTION 7

Which statement describes HTTP header enrichment and its uses?

- A. HTTP header enrichment allows the operator to define a policy that inserts x-header fields into HTTP POST or GET request packets to provide specific subscriber information such as IMSI or MSISDN to the HTTP server without changing the protocol.
- B. HTTP header enrichment is the process that allows HTTP headers to be compressed for optimal transfer across the network.
- C. HTTP header enrichment allows the operator to define a policy that detects the HTTP packet that requires header enrichment. If a match occurs, the policy drops the packet, modifies the packet inline with quality of service definitions, or creates a log message and forwards the packet unmodified.

D. HTTP header enrichment is the process in which a HTTP packet is analyzed for missing or partial header fields. If missing fields are detected or incomplete, the Cisco ASR 5000 can then take action to insert a new header, repair an existing header, create a log entry, and forward the packet.

Correct Answer: A

QUESTION 8

Which option provides a secure connection between two endpoints as it encapsulates the IP payload?

- A. transport mode IPsec
- B. GRE
- C. Internet Key Exchange security association
- D. L2TP

Correct Answer: A

QUESTION 9

Drag the interfaces on the left to match the criteria for GTPv2 control planes on the right.

| | |
|-----|---|
| S4 | The TEID-C shall be unique per PDN-connection. |
| S3 | |
| S16 | |
| S5 | There shall be only one pair of TEID-Cs per UE. |
| S3 | |
| S11 | |

Select and Place:

Drag the interfaces on the left to match the criteria for GTPv2 control planes on the right.

| | |
|-----|---|
| S4 | The TEID-C shall be unique per PDN-connection. |
| S3 | |
| S16 | |
| S5 | There shall be only one pair of TEID-Cs per UE. |
| S3 | |
| S11 | |
| | |

Correct Answer:

Drag the interfaces on the left to match the criteria for GTPv2 control planes on the right.

| | |
|--|---|
| | The TEID-C shall be unique per PDN-connection. |
| | |
| | |
| | There shall be only one pair of TEID-Cs per UE. |
| | |
| | |
| | |

QUESTION 10

Which action does an S4-SGSN take when it receives a secondary PDP context request from the UE?

- A. A bearer resource command is sent to the SGW.
- B. A create bearer request is sent to the SGW.
- C. A create session request is sent to the SGW.
- D. A create PDP context request is sent to the SGW.

Correct Answer: A

QUESTION 11

Your company is adding additional subscriber IP network ranges and requires many-to-one NAT to be configured on the Cisco ASR 5000 for the subscriber IP network 10.11.23.0/24. The public IP range is 172.20.21.20 172.20.21.110, and each IP has no more than 100 subscribers. Which configuration option accomplishes this task?

- A. active-charging service ACS_ACME access-ruledef apn_cisco ip src-address = 10.11.23.0/24 fw-and-nat policy base_1 access-rule priority 1 access-ruledef apn_cisco permit nat-realm nat_pool1 nat policy nat-required default-nat-realm nat_pool1 rulebase acme_rulebase fw-and-nat default-policy base_1 context cisco ip pool nat_pool1 range 172.20.21.20 172.20.21.110 napt-users-per-ip-address 100
- B. active-charging service ACS_ACME access-ruledef apn_cisco ip src-address = 10.11.0.0/16 fw-and-nat policy base_1 access-rule priority 1 access-ruledef apn_cisco permit nat-realm nat_pool1 nat policy nat-required default-nat-realm nat_pool1 rulebase acme_rulebase fw-and-nat default-policy base_1 context cisco ip pool nat_pool1 range 172.20.21.20 172.20.21.110 napt-users-per-ip-address 1000
- C. active-charging service ACS_ACME access-ruledef apn_cisco ip src-address = 10.11.23.0/24 nat-and-pat policy nat_1 access-rule priority 1 access-ruledef apn_cisco permit nat-realm nat_pool1 nat policy nat-required default-nat-realm nat_pool1 context cisco ip pool nat_pool1 range 172.20.21.20 172.20.21.29 napt-users-per-ip-address 100
- D. active-charging service ACS_ACME access-ruledef apn_cisco ip src-address = 10.11.23.0/24 fw-and-nat policy base_1 access-rule priority 1 access-ruledef apn_cisco permit nat-realm nat_pool1 nat policy nat-required default-nat-realm nat_pool1 rulebase acme_rulebase fw-and-nat default-policy base_1 context cisco ip pool nat_pool1 range 172.20.21.20 172.20.21.29 napt-users-per-ip-address 100

Correct Answer: A

QUESTION 12

Which node is configured with a Network Mode of Operation value of 1 to be able to support combined attach and routing area update procedures?

- A. RNC
- B. GGSN
- C. S4-SGSN
- D. SIM
- E. HLR

Correct Answer: A

QUESTION 13

Which option lists the contents of the flow label in a GTPv0 header?

- A. IMSI and NSAPI
- B. MSISDN and NSAPI
- C. IMEI and NSAPI
- D. IMSI and Transaction Identifier
- E. IMEI and Transaction Identifier

Correct Answer: A

QUESTION 14

Drag the protocol on the left to its port number on the right.

| | |
|------|----|
| FTP | 22 |
| HTTP | 25 |
| SMTP | 80 |
| DNS | 53 |
| SSH | 21 |

Select and Place:

Drag the protocol on the left to its port number on the right.

| | |
|------|----|
| FTP | 22 |
| HTTP | 25 |
| SMTP | 80 |
| DNS | 53 |
| SSH | 21 |

Correct Answer:

Drag the protocol on the left to its port number on the right.

| | |
|--|------|
| | SSH |
| | SMTP |
| | HTTP |
| | DNS |
| | FTP |

QUESTION 15

What is the standard Subsystem Number for the Gf interface in the UMTS domain?

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

Correct Answer: D

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