4A0-M10 Q&As

Nokia 5G Packet Core Architecture

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QUESTION 1

In which of the following scenarios is the Service Request procedure performed?

A. A deregistered UE needs to register with the network.

B. A registered UE receives a paging request from the network.

C. A registered UE needs to establish a new PDU session.

D. A deregistered UE needs to connect to the network using non-3GPP access.

Correct Answer: C

QUESTION 2

Which of the following statements most accurately describes the SDF templates used in 5G?

A. SDF templates are used by UE to map uplink traffic to QoS Flows.

B. SDF templates are used by NG-RAN to map QoS Flows to data radio bearers.

C. SDF templates are used by NG-RAN to map QoS Flows to N3 GTP-U tunnels.

D. SDF templates are used by UPF to map downlink traffic to QoS Flows.

Correct Answer: D

Reference: https://ec.europa.eu/research/participants/documents/downloadPublic?
documentIds=080166e5b9aa8c49andappId=PPGMS

QUESTION 3

Which of the following statements about non-access stratum mobility management (NAS-MM) protocol is TRUE?

A. It runs between the UE and the SMF.

B. It is used to control user plane resources between the UE and a data network.

C. It provides common procedures such as authentication, identification, and UE configuration update.

D. NAS-MM messages are relayed transparently by the AMF.

Correct Answer: C

QUESTION 4

Which of the following 5GS reference points is used for control plane signaling?

A. N3

B. N4

C. N6

D. N9

Correct Answer: A

QUESTION 5

Which of the following best describes the function of a PDU session flow classifier?

A. An SMF that dynamically inserts and removes uplink classifiers (UL CL) at the UPFs.

B. An SMF that dynamically inserts and removes UL CL at the UE.

C. A UPF that terminates the N6 interface towards the data network.

D. A UPF that filters uplink traffic according to UL CL rules provided by the SMF.

Correct Answer: A

Reference: https://www.metaswitch.com/knowledge-center/reference/what-is-the-5g-user-plane-function-upf

QUESTION 6

Which of the following statements about session aggregate maximum bit rate (session-AMBR) is FALSE?

A. Session-AMBR limits the aggregate bit rate provided across all non-GBR QoS Flows of a PDU session.

B. SMF calculates the session-AMBR value to be enforced.

C. The UPF that terminates the N6 interface enforces the session-AMBR value in the downlink direction.

D. NG-RAN enforces the session-AMBR in the uplink direction.

Correct Answer: C

QUESTION 7

Which of the following statements about 5GS PDU sessions is FALSE?

A. A PDU session allows for the exchange of PDUs between UE and a data network.

B. A PDU session contains one single dedicated radio bearer and one or more N3 GTP-U tunnels.

C. A PDU session has one default QoS flow and can have multiple non-default QoS flows.

D. A PDU session has one or more UPFs acting as PDU session anchors.

Correct Answer: B

QUESTION 8

Which of the following statements about QoS profiles used in 5G is FALSE?

A. SMF derives the QoS profile of a QoS Flow from a PCC rule and sends it to NG-RAN.

B. NG-RAN uses the QoS profiles to create mapping between QoS Flow IDs and data radio bearers.

C. NG-RAN sends the QoS profiles and corresponding QoS Flow IDs to the UE.

D. Each QoS profile includes a 5G QoS Identifier (5QI) and an Allocation and Retention Priority (ARP).

Correct Answer: C

QUESTION 9

Which of the following statements regarding the 5G security components is FALSE?

A. The authentication credential repository and processing function (ARPF) selects the authentication method to use for the UE.

B. The authentication server function (AUSF) handles authentication requests for both 3GPP and non3GPP access.

C. The security anchor function (SEAF) makes the final decision on UE authentication.

D. The security identifier de-concealing function (SIDF) decrypts the UE\\'s SUCI to obtain its corresponding SUPI.

Correct Answer: D

Reference: https://www.etsi.org/deliver/etsi_ts/133500_133599/133501/15.02.00_60/ts_133501v150200p.pdf

QUESTION 10

Which of the following statements about the protection of service-based interfaces (SBIs) is FALSE?

A. The transport layer security (TLS) performs certification-based authentication, providing connection security between network functions within a PLMN.

B. The OAuth 2.0 framework is used to secure the communication between network functions within a PLMN at the network layer.

C. The network domain security/Internet protocol (NDS/IP) provides confidentiality and data integrity between network functions within a PLMN.

D. The security edge protection proxy (SEPP) handles the security of inter-domain SBIs and protects the interaction between network functions in different PLMNs.

Correct Answer: D

Reference: https://www.broadforward.com/security-edge-protection-proxy/

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