# BL0-100^Q&As

Nokia Bell Labs End-to-End 5G Foundation

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QUESTION 1

Which of the following are 4G limitations that justify a roll-out to 5G? (Choose three.)

A. Low peak and end-user-experience throughput

B. Low reliability

C. High latency

D. Beamforming is not supported

Correct Answer: ABC

Reference: https://www.raconteur.net/technology/5g/4g-vs-5g-mobile-technology/

QUESTION 2

Imagine that you are defining the 5G network requirements for the Industrial Automation of a port, what is the set of 5G technology enablers and horizontal applications that makes sense?

A. Automation of cargo handling and integration with the logistics chain is an Autonomous Container Transport vehicles that requires 5G NR, Edge cloud and High SLA slices.

B. Automation of cargo handling and integration with shorter ship turnaround times through improved predictability of operations is a video inspection system of important large infrastructure that requires 5G NR, FWA and High SLA slices.

C. Automation of cargo handling and integration with the logistics chain is an Autonomous Container Transport vehicles that requires 5G NR, central cloud and FWA.

D. Automation of cargo handling and integration with shorter ship turnaround times through improved predictability of operations is a video inspection system of important large infrastructure that requires 5G NR and central cloud.

Correct Answer: A

QUESTION 3

Which of the following statements about 5G Transport is incorrect?

A. Widely diverse end to end services will require the ability to create a Transport Slice with guaranteed SLAs.

B. Ultra Reliable Machine to Machine communication will require dependable low latency communication.

C. Internet of things devices will require a massive increase in network connectivity.

D. Explosive traffic growth will require statically defined manually configured end to end QoS based services.

Correct Answer: C

**QUESTION 4**

What is Unified Data Management (UDM)?

A. This network function stores or retrieves subscriptions, profiles and authentication data to or from the data repositories. It offers services to the AMF, SMF, NEF and AUSF using the Service Based Interface.

B. This network function supports authentication for 3GPP and non-3GPP accesses.

C. This network function is part of data repositories in the Common Data Layer and in opposition to the UDR, it stores non-standardized unstructured data.

D. This network function provides registration and discovery functionality to enable other network functions/services to discover and communicate with each other.

Correct Answer: B

Reference: https://docs.oracle.com/communications/F25434_01/docs.10/UDM%20User%27s%20Guide/ GUID-F0678B8F-501C-4BE5-A0D7-141CED2DFE70.htm

**QUESTION 5**

What is the primary benefit of Edge Cloud?

A. Lower latency

B. Higher Availability

C. Larger Bandwidth

D. Lower Cost

Correct Answer: A

Reference: https://www.nokia.com/networks/portfolio/edge-cloud/

**QUESTION 6**

Which of the following best defines what is meant by Network Slice isolation?

A. Security + Cloud isolation

B. Resource + Security isolation

C. Transport + Cloud isolation

D. Resource + Traffic isolation

Correct Answer: B

Reference: https://www.gsma.com/futurenetworks/wp-content/uploads/2018/06/Network-Slicing-UseCase-

Requirements-_-FInal-.pdf

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**QUESTION 7**

The network of the future is the key to supporting the digitization and automation of many industries. This network should support diverse requirements from different applications using it. To do that, the network should have a new architecture. Which of the following best describe the elements of the new 5G end-toend network architecture?

A. Wireless Access, Optical Transport, and a dedicated Core Network for wireless access running in a Central Cloud.

B. Multiple access types (not only wireless), Optical Transport, Multi-cloud, and dedicated Core for every type of access.

C. Public sector element, a smart city element, a health element, a transport and logistics element, and an industrial element.

D. Massive Scale Access combining many wireless and wired access types, Smart Network Fabric as transport (combining optical and IP network elements, controlled by SDN), a Universal Adaptive Core network supporting all access types, a Multi-cloud system including central, regional, edge, public, private, and hybrid cloud, and Automation and Analytics providing flexibility in the network to serve different applications.

Correct Answer: D

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**QUESTION 8**

What is the purpose of the secondary authentication feature?

A. To improve authentication between the User Equipment and the 5G Core.

B. To improve authentication when connecting to different network slices.

C. To authenticate the User Equipment coming from an untrusted non-3GPP access (N3IWF).

D. To authenticate the User Equipment with an external data network.

Correct Answer: A

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**QUESTION 9**

What are the benefits of the stateless or state-efficient aspects of network functions?

A. Avoid massive database corruption

B. Provide real time access to the databases

C. Enable scalability and extreme resiliency in the 5G Core

D. Ensure the database integrity

Correct Answer: C

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Reference: https://www.nokia.com/about-us/news/releases/2018/01/29/nokia-implements-future-xnetwork-architecture-for-5g-to-deliver-breakthrough-network-performance-and-reduce-costs/

**QUESTION 10**

Which of the following drive 5G higher reliability?

A. Higher spectral efficiency

B. Multi-connectivity per User Equipment

C. Connectionless radio access

D. Lower Time Transmission Interval (TTI)

Correct Answer: A

Reference: https://learningstore.nokia.com/doc/5g/5G_Foundation_Study_Guide_BL00125_M_% 202002.pdf (9)

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