

BL0-100^{Q&As}

Nokia Bell Labs End-to-End 5G Foundation

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QUESTION 1

Which of the following drive 5G low latency? (Choose two.)

- A. Support of up to 1 billion of IoT and sensors devices per km²
- B. Lower Time Transmission Interval (TTI)
- C. Higher spectral efficiency
- D. Edge Clouds

Correct Answer: BC

QUESTION 2

Which of the following is not a component of the 5G Flexible RAN architecture?

- A. Radio Unit
- B. Distributed Unit
- C. Centralized Unit
- D. Optical Unit

Correct Answer: D

Reference: <https://www.hindawi.com/journals/wcmc/2019/5264012/>

QUESTION 3

What is the main benefit of Cloud RAN?

- A. Increased cell coverage
- B. Better latency
- C. Reduced cost by centralizing some radio functionalities
- D. Increase radio throughput

Correct Answer: D

Reference: <https://www.fujitsu.com/us/Images/CloudRANwp.pdf> (4)

QUESTION 4

Which of the following defines a vertical Network Slice?

- A. When it serves a given customer for a specific purpose, such as a national energy network.
- B. When it cross all the network layers from the radio up to the core.
- C. When it serves a given common purpose, for a use case with a defined QoS (eg a use case in transportation, in energy).
- D. When it operates on the same layer of the ISO/OSI model.

Correct Answer: A

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

QUESTION 5

You and a colleague are discussing the challenges to be resolved in order to make digitization and automation a reality in all industries. He is arguing that the solution is to have faster access connectivity, but you don't agree. You are trying to convince him of the need for an end-to-end solution. The new 5G network should be built end-to-end to enable industries' quest for value. What arguments can you provide to support your position?

- A. Increasing throughput is not enough. A faster and automated transport network, a distributed cloud where applications would run depending on their latency and reliability requirements, a core network that automatically handles any type of access, and a security framework to guarantee the security in every layer of the network are also needed.
- B. The network consists of many layers that include access, transport, core, cloud, and all of the applications running in the cloud. Increasing throughput in access is not enough. The bit rate needs to be increased in all of the other layers as well.
- C. Increasing the access throughput might be worthwhile but applications that support a higher bit rate should also be a consideration.
- D. Increasing the throughput is enough. There is no need to change the network end-to-end.

Correct Answer: A

QUESTION 6

What is the best solution for deploying an optimal network function distribution?

- A. Using duplicated Virtual Network Functions
- B. Using Virtual Network Functions to control the routing
- C. Using Virtual Network Functions orchestrated across various Cloud Data Centers
- D. Using Virtual Network Functions in Access

Correct Answer: C

QUESTION 7

What functionality is applied by SDN to find an alternative path in case of failure in the Transport Network?

- A. Path Correlation Engine
- B. Alternative Route Finding
- C. Alternative Path Computing
- D. Path Computation Engine

Correct Answer: C

Reference: <https://www.google.com/url?sa=t&drct=j&andq=andescr=sandsourc=webandcd=andcad=rjaanduact=8&ved=2ahUKEwj01tmp5uTvAhUQO8AKHbvUB5cQFjAAegQIBxADandurl=https%3A%2F%2Fwww.mdpi.com%2F2071-1050%2F12%2F10%2F4255%2Fpdfandusg=AOVvaw2Jd6iravRnpP8tfxjldKWK>

QUESTION 8

Which one of the following requires a network service package defined in a catalog?

- A. Cloud software platform
- B. Cloud infrastructure software
- C. Cloud orchestration
- D. Software defined network

Correct Answer: C

QUESTION 9

What is the Unstructured Data Storage Function (UDSF)?

- A. This network function exposes 5G Core Network functionalities available to 3rd parties, so that 3rd party capabilities and events may be securely exposed by the Network Exposure Function (NEF).
- B. This network function is part of data repositories in the Common Data Layer. It stores 3GPP standardized data.
- 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 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.

Correct Answer: A

Reference: <https://webthesis.biblio.polito.it/12557/1/tesi.pdf>

QUESTION 10

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

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/>

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