

# BL0-100<sup>Q&As</sup>

Nokia Bell Labs End-to-End 5G Foundation

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### QUESTION 1

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

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### 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/>

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### QUESTION 3

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](https://www.gsma.com/futurenetworks/wp-content/uploads/2018/06/Network-Slicing-UseCase-Requirements-_FInal-.pdf)

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#### QUESTION 4

What is the "sweet spot" for Industry 4.0?

- A. The "sweet spot" for industry 4.0 is the intersection of URLLC, eMBB and mMTC.
- B. The "sweet spot" for industry 4.0 is a double-digit revenue growth.
- C. The "sweet spot" for industry 4.0 is a deployment strategy for delivering the required capacity and coverage for industrials.
- D. The "sweet spot" for industry 4.0 is the intersection of operational, information and communications technologies.

Correct Answer: D

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#### QUESTION 5

Is it possible for a User Equipment to connect simultaneously to multiple slices in 5G?

- A. No
- B. Yes

Correct Answer: B

Reference: [https://www.researchgate.net/publication/340976923\\_Slice\\_Selection\\_In\\_5G\\_Networks\\_Novel\\_Approach\\_for\\_Accessing\\_Multiple\\_Slices\\_Simultaneously](https://www.researchgate.net/publication/340976923_Slice_Selection_In_5G_Networks_Novel_Approach_for_Accessing_Multiple_Slices_Simultaneously)

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#### QUESTION 6

What are the benefits of traffic engineering in Transport networks? (Choose three.)

- A. Scaling access points
- B. Better utilization of network capacity
- C. Traffic steering
- D. Resiliency

Correct Answer: BCD

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#### QUESTION 7

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/>

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### QUESTION 8

A company is planning to offer services to different cities worldwide so drones can be used to scan disaster areas to help identify victims' locations quickly, organize evacuations efficiently, and save lives. Drones will be connected to a 5G network. The company is planning to offer two applications running in the cloud ?one to manage drones through remote control while the other offers live video streaming to drone operators. As a 5G professional, you are asked what are the network requirements for those two applications?

- A. The drone control application needs very low latency to maneuver around obstacles, while the video application would need less latency. Both applications would be running in the central cloud.
- B. The drone control application needs low latency and high reliability from the network and should run in the edge cloud. The video application needs higher throughput but it is not sensitive from the latency and reliability point of view. It can run in a central cloud.
- C. Both applications should run in the edge cloud because the drone control and video applications both require low latency and high reliability from the network.
- D. The drone control application should run through a central cloud. The video streaming application should run in the edge cloud because it carries much data, and that is expensive to run through the central cloud.

Correct Answer: B

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### QUESTION 9

You are working in a logistics company. Your manager is telling you that automation is very important to create more opportunities for the company. His idea is to deliver parcels using drones. With this in mind, he asks you if a 4G network provides good connectivity for controlling the delivery drones. How would you answer him and why?

- A. Yes, 4G provides a connectivity network but, it is quite expensive. WIFI may be a preferable option.
- B. No, a 4G network is not a good choice for drone control because big operators (with whom we cannot deal) mainly deliver it.
- C. No, a 4G network cannot deliver the required connectivity. It is not able to guarantee the latency and reliability required for drone control.
- D. Yes, the drone control application can be hosted in the cloud and the 4G network can provide the speed needed to reach the application and control the drones.

Correct Answer: D

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**QUESTION 10**

Which of the following is not a part of an E2E Network Slice?

- A. Cloud Slice
- B. Core Slice
- C. Access Slice
- D. Transport Slice

Correct Answer: A

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