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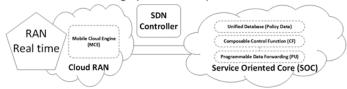


31

Which of the following options is/are required for system-wide security (horizontal security) in 5G?

- Application level
- Confidentiality and integrity protection for devices & gateways
- Distributed clouds
- Network level

Which of the following options is/are parts of the CloudRAN?



- mobile cloud engines
- ✓ sites
- SDN controller
- service oriented core

Question 3 (10 points) Saved

Match the following parameters with their respective technology?

- 1 v 10 msec, Latency
- 2 v 20 Gbps, Maximum data rate
- 1 Gbps, Maximum data rate 1. LTE
- 2 v 1 msec, Latency 2. 5G
- 2 v 10 bps/cell/Hz, Spectral efficiency
- 3 bps/cell/Hz, Spectral efficiency

Question 4 (2 points) ✓ Saved

Which one of the following functional blocks in 5G network architecture is responsible for dynamic poilcies and/or charging control?



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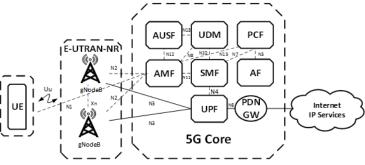






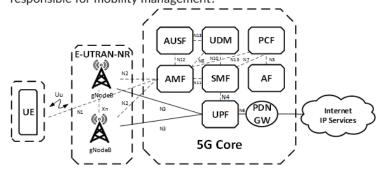
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Which one of the following functional blocks in 5G network architecture is responsible for dynamic policies and/or charging control?



- Application Function, AF
- Access and Mobility Function, AMF
- O Policy Control Function, PCF
- Authentication Server Function, AUSF

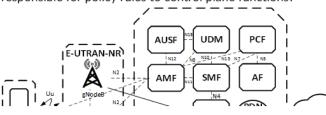
Which one of the following functional blocks in 5G network architecture is responsible for mobility management?



- Unified Data Management, UDM
- Access and Mobility Function, AMF
- User Plane Function, UPF
- Session Management Function, SMF

Question 6 (2 points) ✓ Saved

Which one of the following functional blocks in 5G network architecture is responsible for policy rules to control plane functions?



























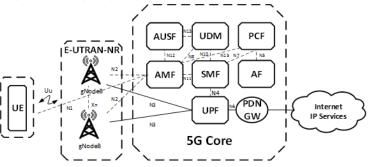
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Question 6 (2 points) Saved

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Which one of the following functional blocks in 5G network architecture is responsible for policy rules to control plane functions?

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- Authentication Server Function, AUSF
- Session Management Function, SMF
- Policy Control Function, PCF
- Access and Mobility Function, AMF

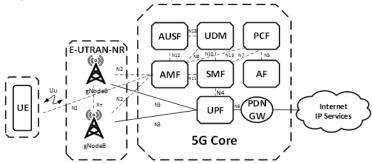
Question 7 (3 points) Saved

Which of the following options is/are the benifits of end to end, E2E network slicing in 5G usage?

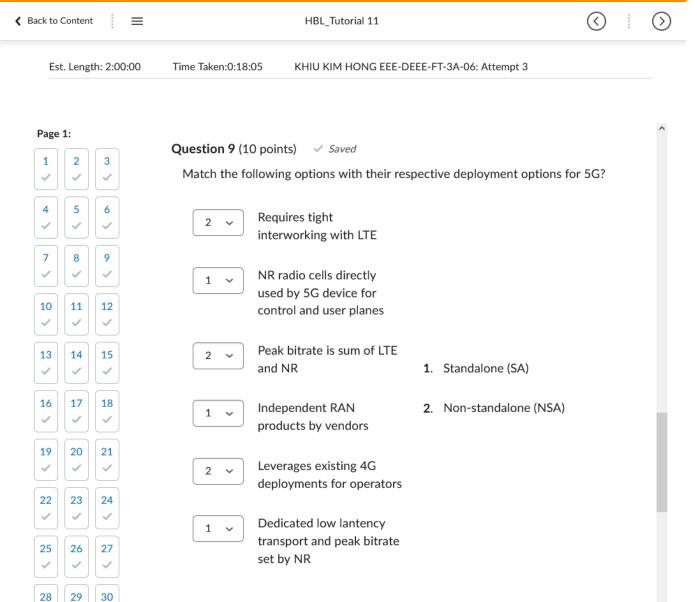
✓ cost

- flexibility
- high latency
- efficiency

Which one of the following functional blocks in 5G network architecture is responsible for authentication processes with UE?



- Authentication Server Function, AUSF
- Session Management Function, SMF
- Unified Data Management, UDM
- Access and Mobility Function, AMF



Question 10 (2 points)

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Which one of the following physical layer features in 5G new radio (NR) is flexibility to operate in many different frequency bands with varying channel requirements around the world?

Olow order modulation scheme

TDD/FDD

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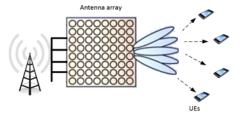
massive MIMO

• flexible channel widths

Question 11 (3 points)

Saved

Which of the following options is/are the benifits of massive beamforming in 5G?



- maximizing the received signal energy at the mobile in a certain direction to improve coverage
- minimizing the received signal energy at the mobile in a certain direction to improve coverage
- concentrating the transmission power in a certain direction to improve the coverage
- steering the transmission power towards the intended receiver







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Question 12 (10 points) Saved

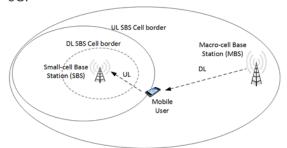
Match the following options with respect to their impact on data rate & cell size in launching of 5G frequency spectrums.

- Able to support very high data rates and short-range connectivity
- Unable to support the higher data rate of 5G without carrier aggregation
- 2 Able to offer a mixture of coverage and capacity
 - Major commercial 5G launches are expected in this spectrum in near future
 - Useful for coverage especially indoor and in rural areas

- 1. Spectrum below 3 GHz
- 2. Spectrum between 3 to 6 GHz
- 3. Spectrum above 24 GHz

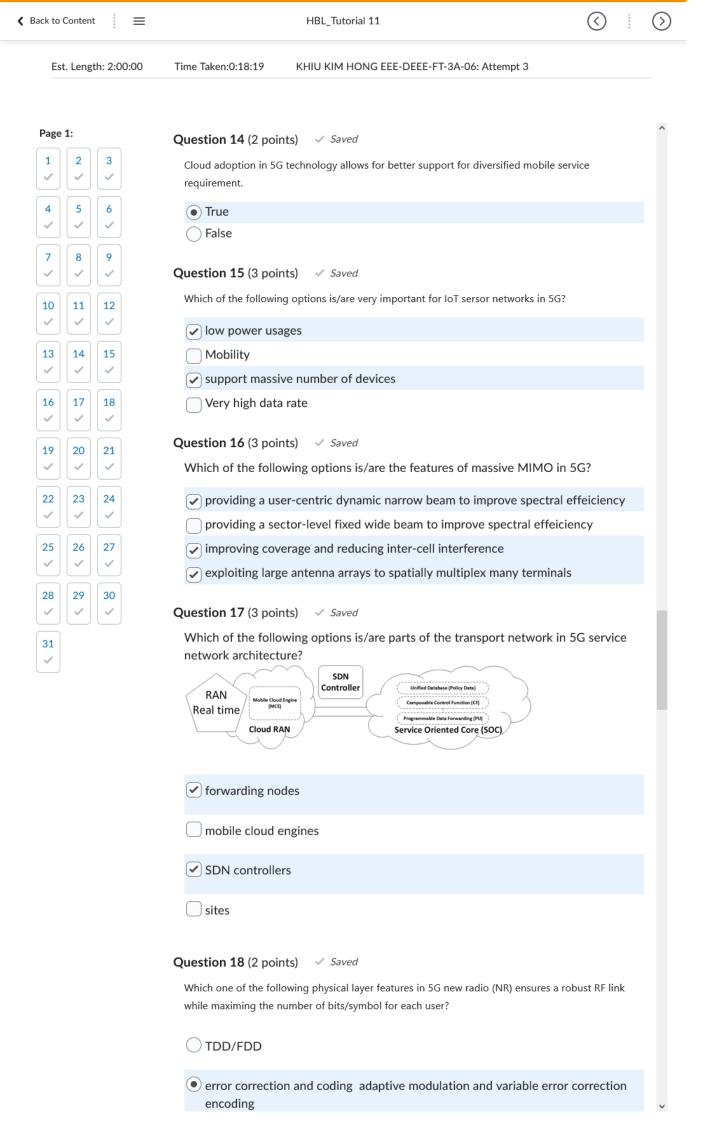
Question 13 (3 points) Saved

Which of the following options is/are TRUE for uplink and downlink decoupling in 5G?



- to configure a high frequency band for uplink to resolved the issue of limited uplink coverage
- to reduce their transmission power and the interference on the base stations
- to separate uplink and downlink of 5G networks onto different frequency bands
- to configure a low frquency band for uplink to resolved the issue of limited uplink coverage

Cloud adoption in 5G technology allows for better support for diversified mobile service requirement.



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Question 18 (2 points) ✓ Saved

Which one of the following physical layer features in 5G new radio (NR) ensures a robust RF link while maximing the number of bits/symbol for each user?

□ TDD/FDD

- error correction and coding adaptive modulation and variable error correction encoding
- massive MIMO
- low order modulation scheme

Question 19 (3 points)

Which of the follow important key areas is/are addressed in 5th generation (5G) wireless access technology?

- ultra-reliable and low latency communication (URLLC)
- enhanced machine broadband (eMBB)
- enhanced mobile broadband (eMBB)
- massive machine type communication (mMTC)

Question 20 (3 points)

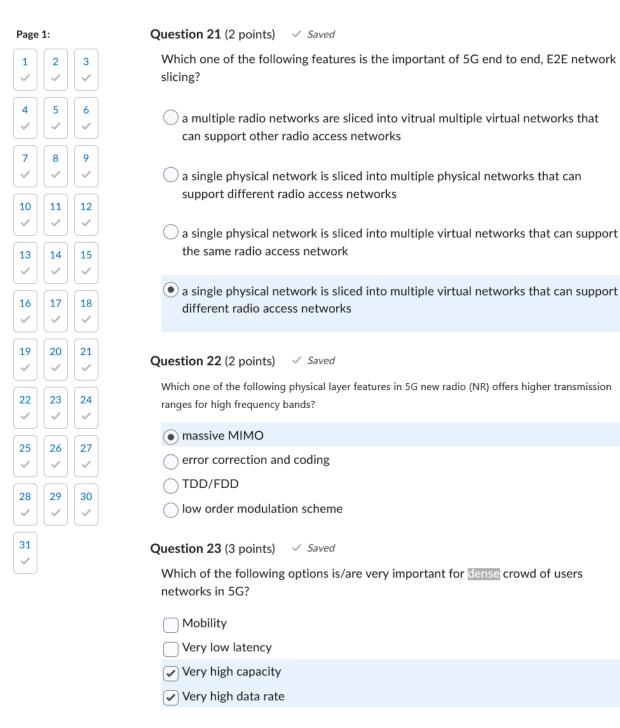
Which of the following options is/are TRUE for network slicing in 5G?

- network slicing allows customers to bulit virtual end-to-end, E2E, networks tailer to application requirements
- lodow network slicing allows the creations of multiple virtual networks atop a shared physical infrastructure
- ✓ network slicing allows service providers to bulit virtual end-to-end, E2E, networks tailer to application requirements
- network slicing allows the creations of multiple physical networks atop a shared physical infrastructure

Question 21 (2 points)

Which one of the following features is the important of 5G end to end, E2E network slicing?

- a multiple radio networks are sliced into vitrual multiple virtual networks that can support other radio access networks
- a single physical network is sliced into multiple physical networks that can support different radio access networks

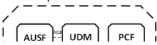


Which one of the following physical layer features in 5G new radio (NR) offers higher data rate for low frequency bands?

TDD/FDD

- massive MIMO
- low order modulation scheme
- error correction and coding

Which one of the following functional blocks in 5G network architecture is responsible for storing of subscription information?

















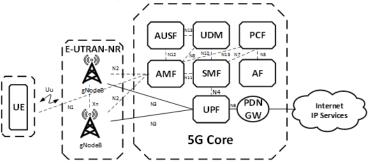






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Which one of the following functional blocks in 5G network architecture is responsible for storing of subscription information?



- Unified Data Management, UDM
- Access and Mobility Function, AMF
- User Plane Function, UPF
- Session Management Function, SMF

Question 26 (3 points) Saved

Which of the following options is/are enabled/allowed by cloud adoption in 5G system?

- component-based network functions
- end to end network slicing
- on-demand deployment of service anchor
- diversified 5G services

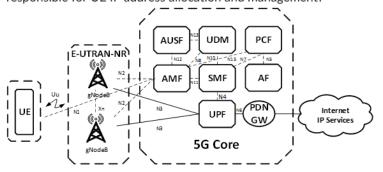
Question 27 (3 points) Saved

Which of the following options is/are very important for IoT control networks in 5G?

- Very high capacity
- Security
- ✓ Very low latency
- Reliability

Question 28 (2 points) Saved

Which one of the following functional blocks in 5G network architecture is responsible for UE IP address allocation and management?





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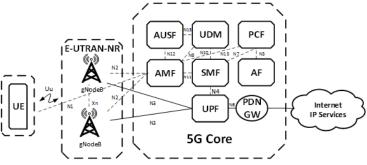




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Question 28 (2 points)

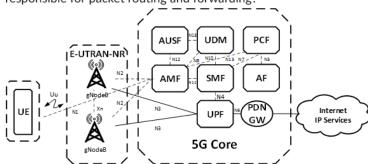
Which one of the following functional blocks in 5G network architecture is responsible for UE IP address allocation and management?



- Access and Mobility Function, AMF
- Unified Data Management, UDM
- User Plane Function, UPF
- Session Management Function, SMF

Question 29 (2 points)

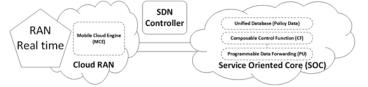
Which one of the following functional blocks in 5G network architecture is responsible for packet routing and forwarding?



- Unified Data Management, UDM
- User Plane Function, UPF
- Access and Mobility Function, AMF
- Session Management Function, SMF

Question 30 (2 points)

Which one of the following features allows for network function orchestration to ensure that networks can select corresponding control-plane functions or user-plane functions according to different service requirements?







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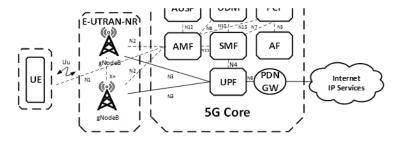








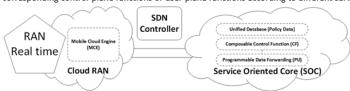
31



- Unified Data Management, UDM
- User Plane Function, UPF
- Access and Mobility Function, AMF
- Session Management Function, SMF

Question 30 (2 points) Saved

Which one of the following features allows for network function orchestration to ensure that networks can select corresponding control-plane functions or user-plane functions according to different service requirements?



- programmable control planes and component-based user planes
- omponent-based control planes and component-based user planes
- programmable control planes and programmable user planes
- component-based control planes and programmable user planes

Question 31 (3 points) Saved

Which of the following options is/are very important for mobile broadband users in 5G?

- ✓ high data rates
- very high reliability
- ✓ mobility
- very low latency

Submit Quiz

31 of 31 questions saved