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HCIA-5G-RAN V3.0 Exam

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Question: 1

In NSA networking, which of the following modes is used to anchor 5G NR?

- A. OGSM
- B. WCDMA
- C. CDMA
- D. LTE

Answer: D

Explanation:

The non-standalone (NSA) mode of 5G NR refers to an option of 5G NR deployment that depends on the control plane of an existing 4G LTE network for control functions, while 5G NR is exclusively focused on the user plane.[7][8] This is reported to speed up 5G adoption, however some operators and vendors have criticized prioritizing the introduction of 5G NR NSA on the grounds that it could hinder the implementation of the standalone mode of the network

Question: 2

Which of the following devices is used to implement service slicing on the 5G RAN side?

- A. Antenna
- B. BBU
- C. AAU
- D. RRU

Answer: B

Explanation:

On the 5G RAN side, Service Slicing is implemented using a Base Band Unit (BBU). A BBU is a device that performs baseband processing functions, such as modulation, demodulation, and encoding/decoding of signals. It is also responsible for the connection to the core network and the management of the radio resources. In 5G, BBU is a key component to support service slicing, where different services can be assigned different slices of the network resources, such as bandwidth, power, and quality of service. This allows for more efficient use of resources and better management of different types of traffic, such as broadband and low latency services.

Question: 3

E2E network device update is required for the evolution from 5G NSA networking to SA networking.

- A. True
- B. False

Answer: A

Explanation:

End-to-end (E2E) network device update is required for the evolution from 5G Non-Stand-Alone (NSA) networking to Stand-Alone (SA) networking. In 5G NSA networking, the control plane functions are handled by the 4G LTE network, while the user plane functions are handled by the 5G NR network. In contrast, in 5G SA networking, the control plane and user plane functions are handled by the 5G NR network alone. So, to evolve from 5G NSA to 5G SA, all the network devices including Radio Access Network (RAN), Core Network (CN) and Transport Network (TN) need to be updated with 5G SA capable software and hardware.

It is important to note that 5G SA provides more flexibility, control and autonomy for network operation and management. However, it also requires a higher level of complexity and more resources to operate.

Question: 4

5G wireless network cloudification can significantly improve the user rate.

- A. True
- B. False

Answer: A

Explanation:

Cloudification of 5G wireless networks can significantly improve the user rate. Cloudification refers to the process of virtualizing the functions of a network and running them on commodity hardware in a data center, rather than on dedicated hardware in the network itself. In the case of 5G wireless networks, this can be achieved by virtualizing the Base Station (gNB) functions and running them on a cloud platform. This allows for more efficient use of resources and better scalability, which can result in an improved user rate.

Additionally, Cloud-RAN (C-RAN) architecture, which is a cloud-based centralization of the baseband processing functions can also be used to improve the user rate by reducing the number of active base stations required in a given area, and also by allowing for more efficient management of resources and more flexible deployment of services.

However, it's worth noting that the improvement of the user rate is not only limited to cloudification, but it's also related to many other factors such as network design, optimization, and management.

Question: 5

C-band is the most popular frequency band for 5G network deployment. However, there is an imbalance between uplink and downlink coverage — how much does this imbalance approximately amount to?

- A. 5dB
- B. 3dB
- C. 12dB
- D. 20dB

Answer: B

Explanation:

The imbalance between uplink and downlink coverage in C-band is not fixed, it varies depending on the network configuration, location, and other factors. Generally speaking, it's hard to provide an exact number for this imbalance, as it depends on the specific network conditions and the equipment used. However, a common practice is to use more power in downlink than uplink, this is due to the fact that downlink is more sensitive to path loss than uplink, and also because the downlink signal is intended to cover a larger area than the uplink. Therefore, the imbalance is commonly in the range of 3 to 6 dB, and it's more likely to be at the lower end of that range. So, the correct answer is B. 3dB It's worth noting that the C-band is not the most popular frequency band for 5G network deployment, it's just one of the many frequency bands that are being used for 5G deployment, and the most popular frequency bands for 5G deployment vary depending on the country, region, and operator.



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