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Question: 369

Which feature of the 5G Core Network enhances the ability to manage different types of traffic, such as eMBB, URLLC, and mMTC?

- A. Network Function Virtualization (NFV)
- B. Service-Based Architecture (SBA)
- C. Mobile Edge Computing (MEC)
- D. Network Slicing

Answer: D

Explanation: Network slicing enables the 5G Core Network to manage different types of traffic effectively by creating isolated network slices tailored to specific service requirements.

Question: 370

In the context of 5G NR, which aspect of dynamic spectrum sharing (DSS) is critical for optimizing the user experience while maintaining quality of service?

- A. Fixed bandwidth allocation
- B. Simplified frequency management
- C. Increased latency
- D. Adaptive resource allocation

Answer: D

Explanation: Adaptive resource allocation is crucial in DSS as it dynamically adjusts the resources based on real-time demand, optimizing user experience and maintaining quality of service for both LTE and 5G users.

Question: 371

What is the key challenge faced by operators when integrating legacy systems with new 5G eMBB architectures, particularly in relation to network management?

- A. Lack of bandwidth
- B. High operational costs
- C. Limited user demand
- D. Incompatibility of protocols

Answer: D

Explanation: Incompatibility of protocols is a key challenge when integrating legacy systems with new 5G eMBB architectures, as differing standards can complicate communication and management processes.

Question: 372

Which approach is most effective for ensuring the security of user data in a 5G network, particularly when considering the use of cloud-based services and edge computing?

- A. Implementing end-to-end encryption and secure data storage practices
- B. Relying solely on perimeter security measures
- C. Regularly changing user passwords
- D. Limiting data access to internal users only

Answer: A

Explanation: End-to-end encryption and secure data storage practices are essential for protecting user data, especially in environments utilizing cloud services and edge computing.

Question: 373

In the context of 5G eMBB, which of the following use cases requires extremely high data rates and low latency for applications such as virtual reality and augmented reality experiences, significantly impacting user engagement and experience?

- A. Mobile Gaming
- B. Enhanced Video Streaming
- C. Remote Surgery
- D. Smart Agriculture

Answer: B

Explanation: Enhanced Video Streaming requires extremely high data rates and low latency to deliver high-definition content seamlessly, especially in applications like virtual and augmented reality where user engagement is critical.

Question: 374

When designing a 5G network with a focus on security planning, which of the following frameworks is

essential for ensuring end-to-end security across all layers of the network architecture?

- A. ITIL Framework
- B. NIST Cybersecurity Framework
- C. ISO 27001 Standards
- D. 3GPP Security Architecture (SA)

Answer: D

Explanation: The 3GPP Security Architecture provides comprehensive guidelines for securing all aspects of the 5G network, ensuring robust protection against various threats.

Question: 375

What is the minimum latency requirement typically expected for URLLC applications in 5G networks to ensure reliability in real-time communications, such as in industrial automation or remote surgery?

- A. 50 ms
- B. 10 ms
- C. 1 ms
- D. 100 ms

Answer: C

Explanation: For URLLC applications, a minimum latency of 1 ms is typically required to ensure reliable real-time communication, which is crucial for applications like industrial automation and remote surgery.

Question: 376

In a scenario where a new application requires specific network performance metrics, which core network function is best suited to create and enforce the necessary policies?

- A. NSSF
- B. PCF
- C. UDM
- D. SMF

Answer: B

Explanation: The Policy Control Function (PCF) is responsible for creating and enforcing policies that define the performance metrics and resource allocation for specific applications within the 5G network.

Question: 377

Which security mechanism is specifically designed to provide mutual authentication between the User

Equipment (UE) and the 5G core network to prevent unauthorized access?

- A. Enhanced Packet Core (EPC)
- B. Secure Sockets Layer (SSL)
- C. Authentication and Key Agreement (AKA)
- D. Internet Protocol Security (IPsec)

Answer: C

Explanation: The Authentication and Key Agreement (AKA) mechanism is crucial for establishing secure connections and mutual authentication in 5G networks.

Question: 378

In 5G NR, the concept of "slot" is a fundamental element of the frame structure. How is the duration of a slot defined in terms of subcarrier spacing, and what impact does this have on latency?

- A. It is fixed and does not vary
- B. It is independent of subcarrier spacing
- C. It is directly proportional to subcarrier spacing
- D. It is inversely proportional to subcarrier spacing

Answer: D

Explanation: The duration of a slot is inversely proportional to the subcarrier spacing; as subcarrier spacing increases, the slot duration decreases. This allows for lower latency in communication, which is essential for time-sensitive applications.

Question: 379

In the context of 5G URLLC, which protocol is primarily utilized to ensure timely and reliable message delivery for critical applications, especially in high-density environments?

- A. TCP/IP
- B. MQTT
- C. HTTP/2
- D. UDP with QoS enhancements

Answer: D

Explanation: UDP with QoS enhancements is primarily utilized in 5G URLLC to ensure timely and reliable message delivery, especially in high-density environments where latency is critical.

Question: 380

When analyzing the impact of different duplexing modes in 5G NR, which scenario would most likely

benefit from Frequency Division Duplex (FDD) in terms of latency and capacity?

- A. Low data rate applications in a remote area
- B. High uplink demand in a dense urban area
- C. Asymmetric traffic in a suburban setting
- D. Symmetric traffic loads in a rural deployment

Answer: D

Explanation: FDD is advantageous in scenarios with symmetric traffic loads, as it allows continuous transmission in both directions, thereby reducing latency and improving capacity for applications that require consistent upstream and downstream communication.

Question: 381

What is the primary benefit of utilizing the 5G NR waveform known as SC-FDMA (Single Carrier Frequency Division Multiple Access) in uplink transmissions?

- A. Improved spectral efficiency
- B. Reduced complexity in user equipment
- C. Enhanced power efficiency
- D. Increased data rates

Answer: C

Explanation: SC-FDMA is specifically designed to improve power efficiency in uplink transmissions, making it advantageous for mobile devices that rely on battery power, as it reduces the Peak-to-Average Power Ratio (PAPR).

Question: 382

Which protocol is crucial for the establishment of a control plane connection in the 5G RAN, enabling proper signaling for user sessions?

- A. GTP-C
- B. RRC
- C. IPsec
- D. SCTP

Answer: B

Explanation: The RRC protocol is essential for establishing and managing control plane connections, facilitating signaling to set up and maintain user sessions in the 5G network.

Question: 383

In the context of 5G eMBB, which of the following strategies can be employed to ensure efficient use of available spectrum, particularly in urban deployments?

- A. Static frequency allocation
- B. Reduced cell density
- C. Spectrum aggregation
- D. Fixed power limits

Answer: C

Explanation: Spectrum aggregation allows for efficient use of available spectrum by combining multiple frequency bands to enhance data throughput and accommodate high user demand in urban deployments.

Question: 384

In a 5G NR deployment, how does the concept of "slicing" contribute to the network's ability to support diverse applications, such as enhanced mobile broadband and massive IoT?

- A. By limiting bandwidth for each application type
- B. By creating virtual networks tailored to specific service requirements
- C. By using a single channel for all services
- D. By reducing the number of user connections allowed

Answer: B

Explanation: Network slicing enables the creation of virtual networks that can be tailored to the specific requirements of different applications, ensuring that diverse service needs are met efficiently and effectively.

Question: 385

In terms of 5G eMBB and its associated use cases, which application typically demands the lowest latency, thereby creating specific requirements for the underlying network architecture?

- A. Video on Demand
- B. Live Streaming Events
- C. Social Media Interaction
- D. Cloud Gaming

Answer: D

Explanation: Cloud Gaming demands the lowest latency of the listed applications, requiring a network architecture that can support real-time interaction and responsiveness to enhance the gaming experience.

Question: 386

In 5G RAN architecture, which component is responsible for processing user plane data and controlling the radio resources?

- A. RAN Intelligent Controller (RIC)
- B. gNB-DU
- C. UE
- D. gNB-CU

Answer: D

Explanation: The gNB Central Unit (gNB-CU) processes user plane data and controls radio resources, coordinating with the Distributed Unit (gNB-DU) for efficient data transmission.

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