**Chapter 2**

**1. IIOT stands for**

1. Information Internet of Things
2. Industrial Internet of Things
3. Innovative Internet of Things
4. None of the above

**2. Name of the IoT device which is first recognized?**

1. Smart Watch
2. ATM
3. Radio
4. Video Game

**3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a collection of wired Ethernet standards for the link layer.**

A. IEEE 802.3

1. IEEE 802.11
2. IEEE 802.16
3. IEEE 802.15.4

**4. \_\_\_\_\_\_ includes GSM and CDMA.**

1. 2G
2. 3G
3. 4G
4. None of the above

**5. 6LOWPAN stands for**

1. 6 LOW Personal Area Network
2. IPv6 LOW Personal Area Network
3. IPv6 over Low power wireless personal area network
4. None of the above

**6. \_\_\_\_\_\_\_\_\_\_\_\_ protocol uses Universal Resource Identifiers (URIs) to identify HTTP resources.**

1. HTTP
2. COAP
3. WebSocket
4. MQTT

**7. MQTT stands for \_\_\_\_\_\_\_\_\_\_\_\_\_**

1. MQ Telemetry Things
2. MQ Transport Telemetry
3. MQ Transport Things
4. MQ Telemetry Transport

**8. CoAP is specialized in \_\_\_\_\_\_\_\_\_\_\_**

1. Internet applications
2. Device applications
3. Wireless applications
4. Wired applications

**9.\_\_\_\_\_ is a bi-directional, fully duplex communication model that uses a persistent connection between client and server.**

1. Request-Response
2. Publish-Subscriber
3. Push-Pull
4. Exclusive Pair

**10. REST is acronym for\_\_\_\_\_\_\_\_**

1. Representational State Transfer
2. Represent State Transfer
3. Representational State Transmit
4. Representational Store Transfer

**11. \_\_\_\_ is one of the most popular wireless technologies used by WSNs.**

1. Zigbee
2. AllSean
3. Tyrell
4. Z-Wave

**12. Devices that transforms electrical signals into physical movements**

1. Sensors
2. Actuators
3. Switches
4. Display

**13. Stepper motors are\_\_\_\_\_**

1. AC motors
2. DC motors
3. Electromagnets
4. None of the above

**14. DC motors convert electrical into \_\_\_ energy.**

1. Mechanical
2. Wind
3. Electric
4. None

**15. Which of the following is NOT a feature of 5G technology?**

1. Faster speeds compared to 4G
2. Lower latency than previous generations
3. Operation on lower radio frequencies
4. Increased capacity for connecting more devices simultaneously

**16. Which advanced technologies are employed by 5G to enhance data transmission?**

A) GPS and Bluetooth

1. NFC and RFID
2. Massive MIMO and beamforming
3. SONAR and LiDAR

**17. Which aspect of NGN architecture enables seamless integration with the internet and facilitates end-to-end communication across different networks?**

A) Packet Switching

1. Multi-Service Support
2. IP-Based Communication
3. Quality of Service (QoS)

**18. Which wireless technology primarily utilizes unlicensed spectrum?**

1. 4G LTE
2. 5G
3. Wi-Fi
4. 3G

**19. Which of the following statements about Next-Generation Network (NGN) Core is true?**

1. NGN Core primarily uses circuit-switched architecture.
2. NGN Core supports only traditional voice calls.
3. NGN Core is not adaptable to changing user demands.
4. NGN Core is built on a packet-switched architecture.

**20. Which MPLS feature enables network operators to optimize resources and improve performance by controlling the flow of traffic through the network?**

1. Label Distribution Protocol (LDP)
2. Traffic Engineering
3. Virtual Private Networks (VPNs)
4. Quality of Service (QoS)