



M4-R5.1 IoT and its Applications MCQs

Unit- I

MCQs- Introduction to Internet of Things

1. Which layer is responsible for collecting data from the physical world?
कौन सी परत भौतिक दुनिया से डेटा एकत्र करने के लिए जिम्मेदार है?

- a) Application Layer
- b) Perception Layer / भौतिक परत
- c) Network Layer
- d) Processing Layer / प्रसंस्करण परत

Answer: **b) Perception Layer / भौतिक परत**

2. Which layer handles the transmission of data collected by the Perception Layer?

कौन सी परत धारणा परत द्वारा एकत्र किए गए डेटा के संचरण को संभालती है?

- a) Processing Layer / प्रसंस्करण परत
- b) Network Layer
- c) Application Layer
- d) Business Layer / व्यवसाय परत

Answer: **b) Network Layer**

3. Which layer processes and analyzes data from the Network Layer?

कौन सी परत नेटवर्क परत से डेटा को संसाधित और विश्लेषण करती है?

- a) Application Layer
- b) Business Layer / व्यवसाय परत
- c) Processing Layer / प्रसंस्करण परत
- d) Perception Layer / धारणा परत

Answer: **c) Processing Layer / प्रसंस्करण परत**

4. Which layer provides specific services and applications to the user?

कौन सी परत उपयोगकर्ता को विशिष्ट सेवाएं और अनुप्रयोग प्रदान करती है?

- a) Network Layer
- b) Application Layer
- c) Processing Layer
- d) Business Layer

Answer: **b) Application Layer**

5. The Business Layer is primarily responsible for:

बिजनेस लेयर मुख्य रूप से इसके लिए जिम्मेदार है:

- a) Data collection
- b) Data transmission
- c) System management and business models
- d) Data processing



M4-R5.1 IoT and its Applications MCQs

Answer: c) System management and business models

The screenshot shows the YouTube channel page for OnWebSharmaG.Com. The channel name is 'OnWeb Sharma G' with 180 subscribers and 23 videos. The bio mentions '#OnWebSharmaG Computer Learning Platform' and 'onwebsharmag.com and 7 more links'. The video list includes:

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6. What communication technology is most often used in the Network Layer?

- a) Actuators
- b) Sensors
- c) Wi-Fi, Bluetooth
- d) Data Processing

Answer: c) Wi-Fi, Bluetooth

7. Which layer is responsible for filtering and aggregating data?

- a) Perception Layer
- b) Network Layer
- c) Processing Layer
- d) Application Layer

Answer: c) Processing Layer

8. What is an example of a function of the Application Layer?

- a) Analyzing Data
- b) Providing User Interface



M4-R5.1 IoT and its Applications MCQs

- c) Transmitting Data
- d) Sensor Data Collection

Answer: b) Providing User Interface

9. In which layer are sensors and actuators typically found?

- a) Network Layer
- b) Application Layer
- c) Perception Layer
- d) Business Layer

Answer: c) Perception Layer

10. Which layer manages the entire IoT system, including applications, business models, and user privacy?

- a) Perception Layer
- b) Network Layer
- c) Application Layer
- d) Business Layer

Answer: d) Business Layer

11. Which of the following is a primary characteristic of LPWAN (Low Power Wide Area Network) technologies?

LPWAN (Low Power Wide Area Network) तकनीकों की प्राथमिक विशेषता निम्नलिखित में से कौन सी है?

- a) High bandwidth / उच्च बैंडविड्थ
- b) Short range / कम दूरी
- c) Low power consumption / कम बिजली की खपत
- d) Wired connectivity

Answer: c) Low power consumption / कम बिजली की खपत

12. Which network type is best suited for connecting devices within a smart home?

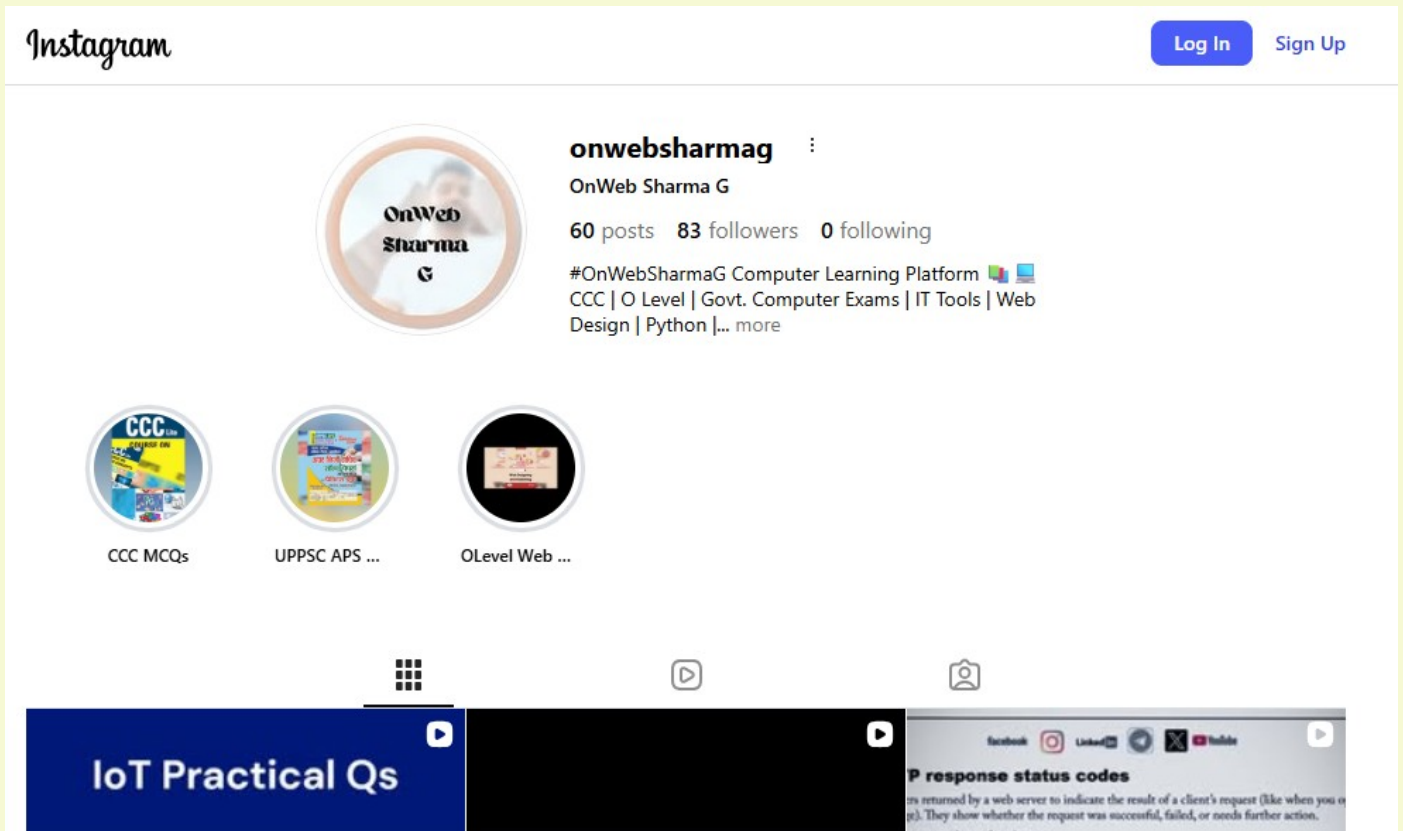
एक स्मार्ट घर के अंदर उपकरणों को जोड़ने के लिए कौन सा नेटवर्क प्रकार सबसे उपयुक्त है?

- a) WAN
- b) MAN
- c) PAN
- d) LAN

Answer: d) LAN



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13. Which protocol is commonly used for short-range, low-power communication in IoT, especially for wearable devices?

IoT में, विशेष रूप से पहनने योग्य उपकरणों के लिए, कम दूरी और कम बिजली की खपत के लिए आमतौर पर किस प्रोटोकॉल का उपयोग किया जाता है?

- a) Wi-Fi
- b) Ethernet
- c) Bluetooth (BLE)
- d) Cellular

Answer: c) Bluetooth (BLE)

14. Which of the following is a characteristic of a mesh network topology?

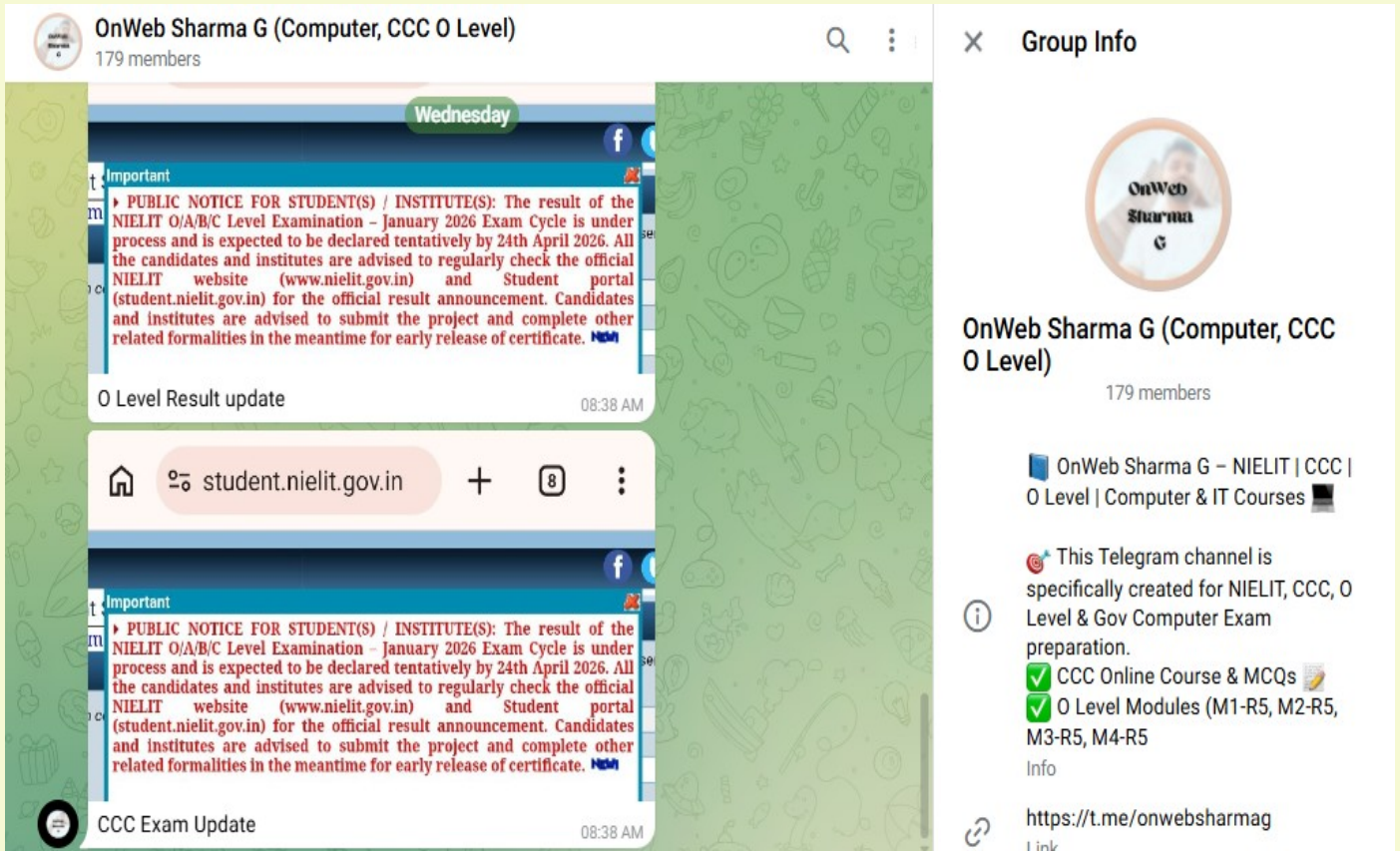
एक मेश नेटवर्क टोपोलॉजी की विशेषता निम्नलिखित में से कौन सी है?

- a) All devices connect to a central hub.
- b) Devices can communicate directly with each other.
- c) A single communication line connects all devices.
- d) A hierarchical structure with a root node.

Answer: b) Devices can communicate directly with each other.



M4-R5.1 IoT and its Applications MCQs



15. Which of the following is NOT a characteristic of Zigbee?

निम्नलिखित में से कौन सी Zigbee की विशेषता नहीं है?

- a) Short-range
- b) Low-power
- c) High bandwidth
- d) Mesh networking capability

Answer: c) High bandwidth

16. Which technology is primarily used for contactless payments and device pairing in IoT?

IoT में संपर्क रहित भुगतान और डिवाइस पेयरिंग के लिए मुख्य रूप से किस तकनीक का उपयोग किया जाता है?

- a) Wi-Fi
- b) NFC
- c) LoRaWAN
- d) Cellular

Answer: b) NFC



M4-R5.1 IoT and its Applications MCQs

17. Which network type is best suited for smart agriculture applications covering large fields?

- a) LAN
- b) PAN
- c) WAN (using LPWAN)
- d) MAN

Answer: c) WAN (using LPWAN)

18. Which of the following is a cellular-based LPWAN technology?

- a) LoRaWAN
- b) Zigbee
- c) NB-IoT
- d) Z-Wave

Answer: c) NB-IoT

19. Which of the following is a wired network protocol?

- a) Wi-Fi
- b) Bluetooth
- c) Ethernet
- d) LoRaWAN

Answer: c) Ethernet

20. What does the acronym "WAN" stand for?

- a) Personal Area Network / व्यक्तिगत क्षेत्र नेटवर्क
- b) Local Area Network / स्थानीय क्षेत्र नेटवर्क
- c) Wide Area Network / विस्तृत क्षेत्र नेटवर्क
- d) Metropolitan Area Network / महानगरीय क्षेत्र नेटवर्क

Answer: c) Wide Area Network / विस्तृत क्षेत्र नेटवर्क

21. Which of the following protocols is specifically designed for low-power devices in IoT networks?

- A) MQTT
- B) HTTP
- C) FTP
- D) SNMP

Answer: A) MQTT

22. What is the primary purpose of the CoAP protocol in IoT?

- A) To provide file transfer capabilities
- B) To enable the transfer of hypermedia data



M4-R5.1 IoT and its Applications MCQs

- C) To facilitate communication in constrained networks
- D) To deliver video streaming services

Answer: C) To facilitate communication in constrained networks

23. Which of the following protocols uses a publish/subscribe model?

- A) HTTP
- B) CoAP
- C) MQTT
- D) XMPP

Answer: C) MQTT

24. What is the primary purpose of the Application Layer in the IoT architecture?

- A) Data processing
- B) Security
- C) End-user interaction
- D) Data transmission

Answer: C) End-user interaction

25. Which HTTP method is commonly used to submit data to be processed by a specified resource?

- A) GET
- B) DELETE
- C) POST
- D) PUT

Answer: C) POST

26. What is the purpose of the HTTP status code 204?

- A) Created
- B) No Content
- C) Not Found
- D) Bad Request

Answer: B) No Content

27. Which of the following transport protocols does CoAP use?

- a) TCP
- b) HTTP
- c) UDP
- d) SCTP

Answer: c) UDP



M4-R5.1 IoT and its Applications MCQs

28. What does MQTT stand for?

- A) Message Queue Telemetry Transport
- B) Mediated Quick Transfer
- C) Multi-Quality Transmission Protocol
- D) Message Quick Transmission

Answer: A) Message Queue Telemetry Transport

29. In MQTT, what does a "Broker" do?

- A) Manages the clients and controls the message routing
- B) Initiates the communication process
- C) Generates messages
- D) Stores messages locally for future retrieval

Answer: A) Manages the clients and controls the message routing

30. In which layer of the OSI model does AMQP primarily operate?

- A) Application Layer
- B) Transport Layer
- C) Network Layer
- D) Data Link Layer

Answer: A) Application Layer





M4-R5.1 IoT and its Applications MCQs

31. Which type of IoT system level involves a single device performing sensing, local processing, and hosting the application?

कौन सा IoT सिस्टम स्तर एकल डिवाइस के माध्यम से सेंसिंग, स्थानीय प्रोसेसिंग और एप्लीकेशन होस्टिंग करता है?

- A) Level 1
- B) Level 2
- C) Level 3
- D) Level 4

Answer: A) Level 1

32. At which IoT system level is data stored and analyzed in the cloud, with the device performing sensing and actuation?

कौन सा IoT सिस्टम स्तर क्लाउड में डेटा संग्रहण और विश्लेषण करता है, जबकि डिवाइस सेंसिंग और एक्ट्यूएशन करता है?

- A) Level 1
- B) Level 2
- C) Level 3
- D) Level 4

Answer: C) Level 3

33. Which IoT system level includes multiple devices performing local analysis with cloud storage and application hosting?

कौन सा IoT सिस्टम स्तर कई उपकरणों को स्थानीय विश्लेषण के साथ क्लाउड संग्रहण और एप्लीकेशन होस्टिंग करता है?

- A) Level 1
- B) Level 2
- C) Level 4
- D) Level 5

Answer: C) Level 4

34. At which IoT system level does a coordinator node collect data from multiple end nodes for cloud analysis?

कौन सा IoT सिस्टम स्तर एक समन्वयक नोड को कई अंत नोडों से डेटा संग्रहण के लिए क्लाउड विश्लेषण करता है?

- A) Level 3
- B) Level 4
- C) Level 5
- D) Level 6

Answer: C) Level 5

35. Which IoT system level uses multiple end nodes for monitoring and data transfer to the cloud with centralized control?



M4-R5.1 IoT and its Applications MCQs

कौन सा IoT सिस्टम स्तर केंद्रीय नियंत्रण के साथ निगरानी और डेटा स्थानांतरण के लिए कई अंत नोडों का उपयोग करता है?

- A) Level 1
- B) Level 5
- C) Level 6
- D) Level 2

Answer: C) Level 6

36. What is the primary function of Level 1 IoT systems?

- A) Cloud data processing
- B) Local data processing
- C) Data storage
- D) Communication

Answer: B) Local data processing

37. In which level do multiple nodes perform local analysis while storing data in the cloud?

- A) Level 2
- B) Level 3
- C) Level 4
- D) Level 5

Answer: C) Level 4

38. Which level involves a single node performing sensing with cloud storage for large volumes of data?

- A) Level 1
- B) Level 2
- C) Level 3
- D) Level 4

Answer: C) Level 3

39. Which level of IoT architecture is suitable for low-cost and low-complexity solutions?

IoT आर्किटेक्चर का कौन सा स्तर कम लागत और कम जटिलता समाधान के लिए उपयुक्त है?

- A) Level 1
- B) Level 2
- C) Level 3
- D) Level 4

Answer: A) Level 1



M4-R5.1 IoT and its Applications MCQs



40. Which IoT system level is best suited for applications requiring both local and cloud data processing with real-time analytics?

- A) Level 2
- B) Level 3
- C) Level 4
- D) Level 5

Answer: C) Level 4

41. What kind of analysis is performed at Level 2 of the IoT system?

- A) Cloud analysis
- B) Local analysis
- C) Hybrid analysis
- D) No analysis

Answer: B) Local analysis

42. Which level is characterized by computationally intensive data analysis performed in the cloud?

- A) Level 1
- B) Level 3
- C) Level 5
- D) Level 6

Answer: B) Level 3



M4-R5.1 IoT and its Applications MCQs

43. Which type of IoT system level uses multiple end nodes for monitoring with centralized control in the cloud?

- A) Level 1
- B) Level 5
- C) Level 6
- D) Level 4

Answer: C) Level 6

44. At which level does a single node perform sensing, local analysis, and use cloud storage for large volumes of data?

- A) Level 1
- B) Level 2
- C) Level 3
- D) Level 4

Answer: C) Level 3

45. What is the primary function of Level 4 IoT systems?

- A) Local data processing only
- B) Cloud storage and analysis only
- C) Local data processing with cloud storage and analysis
- D) Data sensing only

Answer: C) Local data processing with cloud storage and analysis

46. Which level is characterized by the use of cloud storage and application hosting with multiple nodes performing local analysis?

- A) Level 1
- B) Level 2
- C) Level 4
- D) Level 6

Answer: C) Level 4

47. Which IoT system level is characterized by the integration of sensing, local processing, and cloud-based storage?

- A) Level 2
- B) Level 3
- C) Level 5
- D) Level 6

Answer: B) Level 3

48. Which level is appropriate for an IoT system that requires both local and cloud-based data processing?

- A) Level 2



M4-R5.1 IoT and its Applications MCQs

- B) Level 4
- C) Level 5
- D) Level 6

Answer: **B) Level 4**

49. What is the primary function of Level 3 IoT systems?

- A) Local data processing only
- B) Cloud storage and processing
- C) Data sensing only
- D) Data transmission

Answer: **B) Cloud storage and processing**

50. In which IoT level does a centralized controller manage all nodes and deliver command signals?

- A) Level 4
- B) Level 5
- C) Level 6
- D) Level 1

Answer: **C) Level 6**

51. What does SDN primarily focus on?

- A) Virtualization network functions
- B) Centralized control of networking
- C) Physical hardware management
- D) Network security

Answer: **B) Centralized control of networking**

52. Which component is a key feature of SDN architecture?

- A) Virtual Machines
- B) Network Function Virtualization
- C) Centralized Controller
- D) Routers

Answer: **C) Centralized Controller**

53. What does NFV primarily aim to achieve?

- A) Improved data encryption
- B) Consolidation of hardware resources
- C) Centralized network management
- D) External access to networking

Answer: **B) Consolidation of hardware resources**



M4-R5.1 IoT and its Applications MCQs

54. Which of the following is an example of NFV?

- A) Google B4
- B) VMware NSX
- C) Cisco ACI
- D) Amazon EC2

Answer: **B) VMware NSX**

55. What is a major benefit of using SDN?

- A) Increased physical hardware dependency
- B) Rapid network reconfiguration
- C) Higher latency
- D) Reduced bandwidth

Answer: **B) Rapid network reconfiguration**

56. NFV helps in:

- A) Reducing the cost of network setup
- B) Increasing maintenance times
- C) Complicating network functions
- D) Relying on proprietary hardware

Answer: **A) Reducing the cost of network setup**

57. Which architecture does SDN utilize?

- A) Layer 2 switching
- B) Layer 3 routing
- C) Centralized control plane
- D) Hierarchical structure

Answer: **C) Centralized control plane**

58. What is a common use case for SDN in enterprises?

- A) Data storage solutions
- B) Virtual private networks
- C) Load balancing
- D) Firewalls

Answer: **C) Load balancing**

59. Which technology allows for the deployment of network functions as virtual machines?

- A) SDN
- B) NFV
- C) TCP/IP
- D) MPLS



Answer: B) NFV

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60. What is the primary advantage of using NFV?

- A) Increased reliance on physical devices
- B) Scalability and flexibility of services
- C) Decreased network performance
- D) Complicated service deployment

Answer: B) Scalability and flexibility of services

61. Which network type is used for wearable health monitoring devices like smartwatches and fitness bands?

कौन सा नेटवर्क प्रकार स्मार्टवॉच और फिटनेस बैंड जैसे पहनने योग्य स्वास्थ्य निगरानी उपकरणों के लिए उपयोग किया जाता है?

- A. LAN
- B. BAN
- C. MAN
- D. VPN



M4-R5.1 IoT and its Applications MCQs

Answer: B. BAN

Explanation: BAN (Body Area Network) शरीर के आसपास के क्षेत्र में काम करता है और पहनने योग्य डिवाइसेज़ जैसे WBAN sensors, smartwatches आदि के लिए उपयुक्त होता है। यह डेटा को वायरलेस तरीके से transmit करता है।

**62. Which network connects devices within a single building or campus?
कौन सा नेटवर्क एक ही भवन या परिसर के भीतर डिवाइसेज़ को जोड़ता है?**

- A. WAN
- B. CAN
- C. GAN
- D. PAN

Answer: B. CAN

Explanation: CAN (Campus Area Network) एक सीमित भौगोलिक क्षेत्र जैसे विश्वविद्यालय परिसर या सैन्य क्षेत्र में डिवाइसेज़ को जोड़ता है। यह LAN आधारित होता है।

**63. What is the full form of PAN in networking?
नेटवर्किंग में PAN का पूरा नाम क्या है?**

- A. Public Access Network
- B. Personal Area Network
- C. Private Access Node
- D. Packet Allocation Network

Answer: B. Personal Area Network

Explanation: PAN का मतलब होता है Personal Area Network, जो छोटे क्षेत्र में व्यक्तिगत डिवाइसेज़ को जोड़ता है जैसे Bluetooth, Zigbee आदि।

**64. Which network type is suitable for city-wide internet coverage using fiber optics or microwave?
कौन सा नेटवर्क प्रकार फाइबर ऑप्टिक्स या माइक्रोवेव के माध्यम से शहर-स्तरीय इंटरनेट कवरेज के लिए उपयुक्त है?**

- A. MAN
- B. LAN
- C. VPN
- D. BAN

- A. MAN
- B. LAN
- C. VPN
- D. BAN

Answer: A. MAN

Explanation: MAN (Metropolitan Area Network) शहर या कस्बे में high-speed connectivity प्रदान करता है। इसमें WiMAX और microwave technologies का उपयोग होता है।

**65. Which network uses satellite communication to connect globally?
कौन सा नेटवर्क वैश्विक रूप से जुड़ने के लिए उपग्रह संचार का उपयोग करता है?**

- A. GAN
- B. LAN
- C. PAN
- D. HAN



M4-R5.1 IoT and its Applications MCQs

Answer: A. GAN

Explanation: GAN (Global Area Network) उपग्रह और वायरलेस नेटवर्क्स के माध्यम से वैश्विक स्तर पर डिवाइसेज को जोड़ता है। यह mobile roaming और satellite coverage के लिए उपयोगी है।

66. What is the main purpose of a VPN in networking?

नेटवर्किंग में VPN का मुख्य उद्देश्य क्या है?

- A. High-speed data transfer
- B. Public access to all devices
- C. Secure remote access
- D. Connecting wearables

Answer: C. Secure remote access

Explanation: VPN (Virtual Private Network) एक सुरक्षित आभासी नेटवर्क बनाता है जो remote users को encrypted तरीके से नेटवर्क से जोड़ता है।

67. The ____ is the “Central Nervous System” that takes care of global services in the IoTs.

- A. Perception Layer
- B. Network Layer
- C. Application Layer
- D. None of these

Answer: B. Network Layer

The image shows a screenshot of a Facebook profile for 'OnWeb Sharma G'. The profile picture is a circular logo with the text 'OnWeb Sharma G'. The cover photo shows a scenic view of a bridge over a river with trees. The profile has 17 followers and 0 following. Below the profile information, there are tabs for 'Posts', 'About', 'Reels', and 'Photos'. The 'Intro' section contains the following text: 'OnWeb Sharma G provides interactive, interesting, knowledgeable content related to Computer Knowledge, Sports and Wellness to balance our journey. To follow or subscribe on YouTube, Facebook, Instagram, WhatsApp, Telegram, X, LinkedIn to give your love..!'. Below the intro, it says 'Page · Education'. There is a post from 'OnWeb Sharma G' dated 13 July 2025, which says 'Free O Level and CCC for OBC Candidates by UP Govt.आप करें, अपने दोस्तों को, अपने रिस्तेदारों को एवं अपने पड़ोसियों को करायें'. The post image features logos for 'OnWeb Sharma G', 'NIELIT', and 'UP Govt.' along with a hand icon pointing to the right.



M4-R5.1 IoT and its Applications MCQs

68. Remotes enable entities that utilize IoT devices to connect and control them using a dashboard:

- A. Smartphones
- B. Tablets & PCs
- C. Smart Watches
- D. All of the above

Answer: D. All of the above

69. WiFi-ah (HaLoW) is designed specifically for:

- A. Low data rate
- B. Long-range
- C. Controllers
- D. All of the above

Answer: D. All of the above

70. RFID is a useful IoT architecture layer of the perception layer for:

- A. Object identifying
- B. Tracking
- C. Exchanging useful information
- D. All of the above

Answer: D. All of the above

71. What is the full form of HTTP?

- A. Hyphenation Text Test Program
- B. Hypertext Transaction Protocol
- C. Hypertext Transfer Package
- D. None of these

Answer: D. None of these (Hyper Text Transfer Protocol)

72. An entity of IoT:

- A. Business
- B. Governments
- C. Consumers
- D. All of these

Answer: D. All of these

73. Which of the following wireless technology provide mesh network architecture in easiest way?

- A. Bluetooth
- B. ZigBee
- C. WiFi



M4-R5.1 IoT and its Applications MCQs

D. None of these

Answer: B. ZigBee

74. ZigBee is based on which of the following standard:

- A. IEEE 802.15.4
- B. IEEE 802.5
- C. IEEE 802.4.13
- D. Both A and B

Answer: A. IEEE 802.15.4

75. Mostly used protocols in IoT:

- A. MQTT
- B. ZigBee
- C. XMPP
- D. All of these

Answer: D. All of these

76. Which of the following is Light weight protocol used in IoT Applications?

- A. MQTT
- B. WebSocket
- C. HTTP
- D. All of these

Answer: A. MQTT

77. Advantage of MQTT over HTTP is:

- A. More secure
- B. Lightweight
- C. Polling is not
- D. All of these

Answer: D. All of these

78. MQTT suits are:

- A. Small & Cheap
- B. Low-memory devices
- C. Low-power devices
- D. All of the above

Answer: D. All

79. Which protocol provide Full-Duplex communication?

- A. WebSocket



M4-R5.1 IoT and its Applications MCQs

- B. HTTP
- C. MQTT
- D. CoAP

Answer: A. WebSocket

80. IPv4 is ___ bit address.

- A. 24
- B. 32
- C. 64
- D. 128

Answer: B. 32

81. Acronym of 6LoWPAN is:

- A. IPv6 over Low Power Wireless Private Area Network
- B. IPv6 over Low Energy Wire Personal Area Network
- C. IPv6 over Long Range Wireless Personal Area Network
- D. IPv6 over Low Power Wireless Personal Area Network

Answer: D. IPv6 over Low Power Wireless Personal Area Network

82. The different wireless standards used in cellular networks:

- A. GSM
- B. CDMA
- C. LTE
- D. All of these

Answer: D. All of these

83. The full form of LoRa is:

- A. Level Range
- B. Long Radio Range
- C. Long Range
- D. None of these

Answer: C. Long Range

84. The RFID technology consists of:

- A. Antenna
- B. Transponder
- C. Transceiver
- D. All of these

Answer: D. All of these



M4-R5.1 IoT and its Applications MCQs

85. Which protocol provide Half-Duplex communication?

- A. WebSocket
- B. HTTP
- C. MQTT
- D. CoAP

Answer: B. HTTP

86. Connected car is:

- A. BAN
- B. LAN
- C. WAN
- D. None of the above

Answer: C. WAN

87. An IoT ecosystem is a network of organizations that drives the creation and delivery of IoT products and services.

- A. True
- B. False

Answer: A. True

88. BLE is a low-power version of the popular Bluetooth 2.4 GHz wireless communication protocol.

- A. True
- B. False

Answer: A. True

89. Bluetooth low energy is also called Bluetooth smart.

- A. False
- B. True

Answer: B. True

90. CoAP can be thought of as an alternative to HTTP.

- A. False
- B. True

Answer: B. True

91. MQTT is a lightweight protocol, which makes it suitable for IoT applications.

- A. False
- B. True



M4-R5.1 IoT and its Applications MCQs

Answer: B. True

92. The Sigfox network provides very long-range Wireless connectivity for the Internet of Things.

- A. False
- B. True

Answer: B. True

93. RFID is inexpensive and uses very little power.

- A. True
- B. False

Answer: A. True

The image shows a screenshot of the YouTube channel page for OnWeb Sharma G. At the top, there is a banner with the channel name 'OnWebSharmaG.Com' and 'Official Website'. Below the banner is a search bar. The channel profile picture is a circular logo with the text 'OnWeb Sharma G'. The channel name 'OnWeb Sharma G' is displayed prominently, along with the handle '@OnWebSharmaG', 180 subscribers, and 23 videos. Below this, there is a 'Subscribe' button and a list of links including 'onwebsharmag.com' and '7 more links'. The 'Videos' section is visible, showing a grid of video thumbnails. The thumbnails are numbered 1 through 5, with titles like 'VIDEO TAG', '5 Qs', 'Redirect PopUp', 'Web Practical 2', and 'CSS COMBINATORS'. Each thumbnail includes a duration and a view count.

94. The phrase 'Internet of Things' was coined by Kevin Ashton an expert on digital innovation in 1999.

- A. True
- B. False

Answer: A. True

