

UNIT-5

Multiple Choice Questions

1. oneM2M is mainly developed to:

- a) Standardize IoT services
- b) Increase memory
- c) Improve display
- d) Replace sensors

Answer: a

2. oneM2M supports:

- a) Interoperability
- b) Gaming
- c) Video editing
- d) Printing

Answer: a

3. ETSI stands for:

- a) European Telecommunications Standards Institute
- b) Electronic Technology Standards Institute
- c) Engineering Technical System Integration
- d) European Technical Service Interface

Answer: a

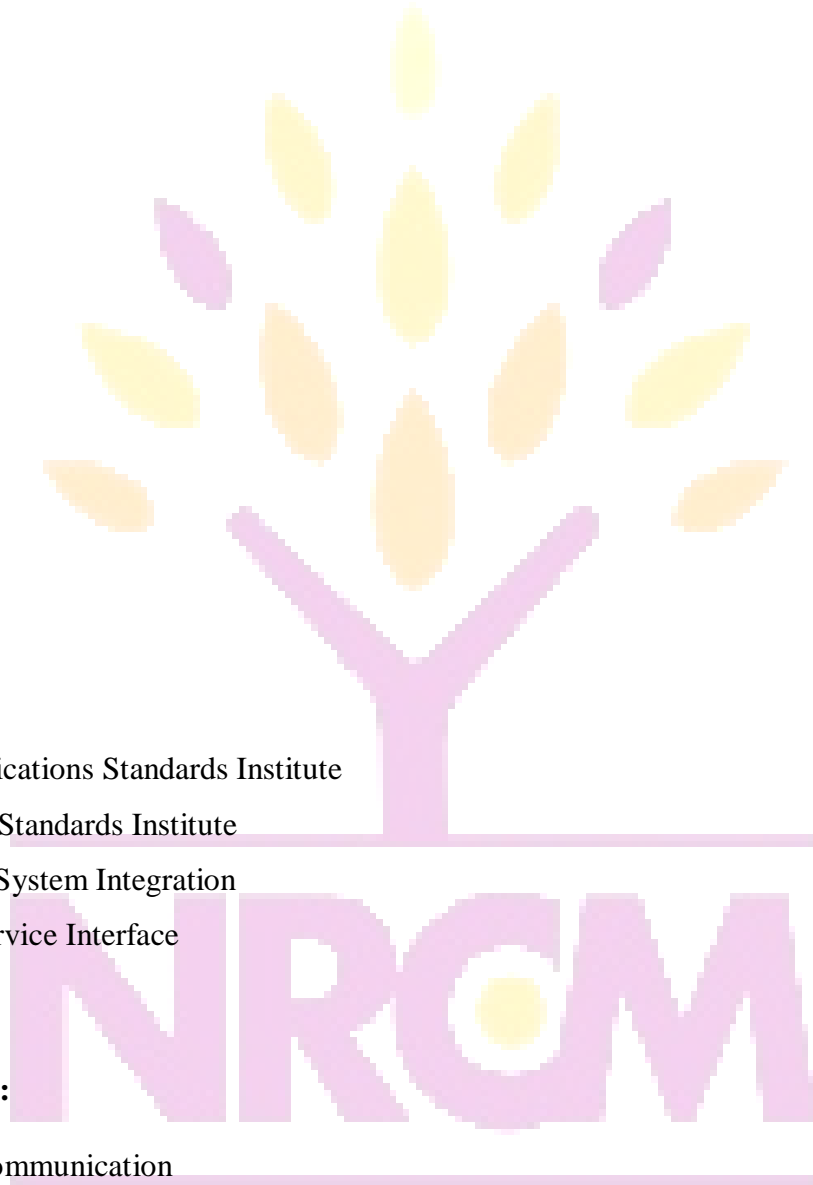
4. ETSI M2M focuses on:

- a) Machine-to-Machine communication
- b) Data compression
- c) Device manufacturing
- d) Web browsing

Answer: a

5. OMA stands for:

- a) Open Mobile Alliance
- b) Operational Mobile Access



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- c) Open Machine Architecture
- d) Online Mobile Access

Answer: a

6. BBF stands for:

- a) Broadband Forum
- b) Binary Broadband Framework
- c) Broadband Function
- d) Base Band Forum

Answer: a

7. Which protocol standard supports IoT service enablement?

- a) oneM2M
- b) SMTP
- c) FTP
- d) POP3

Answer: a

8. Security in IoT mainly ensures:

- a) Confidentiality
- b) Integrity
- c) Availability
- d) All of these

Answer: d

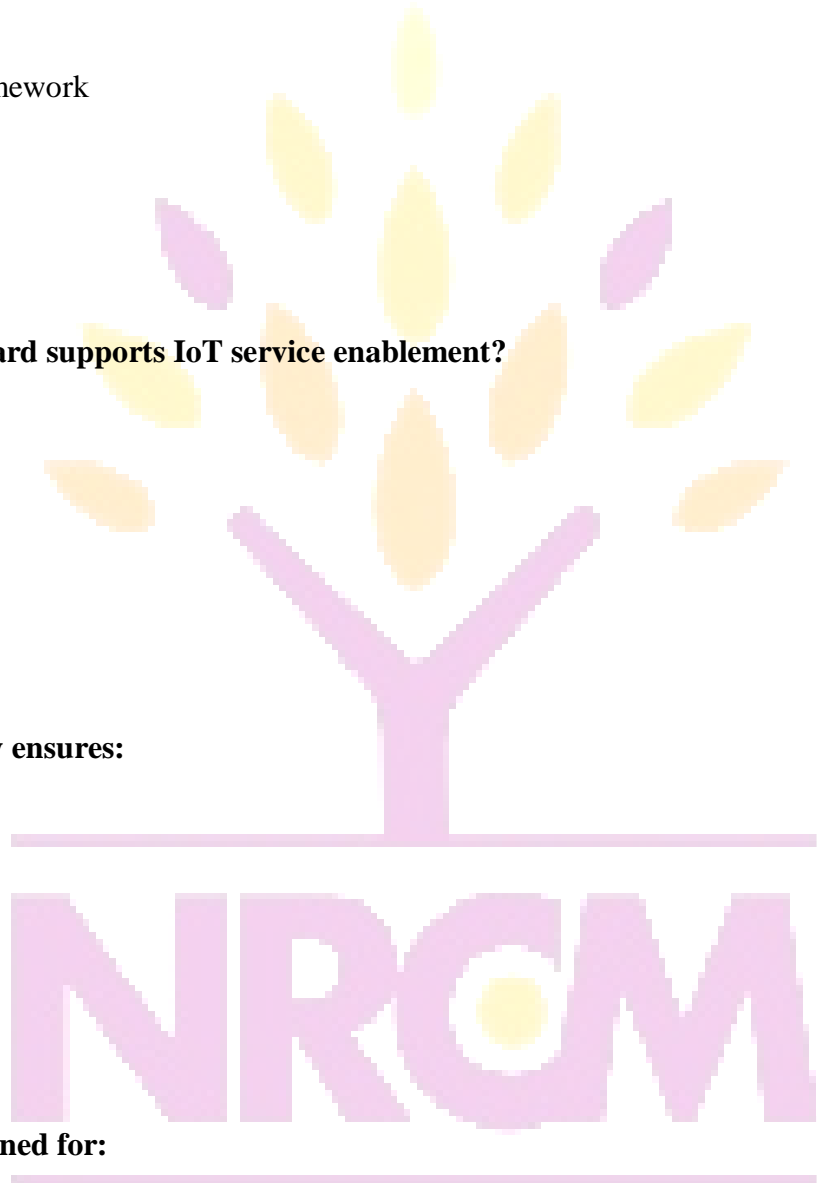
9. IEEE 802.15.4 is designed for:

- a) Low-rate wireless communication
- b) High-speed internet
- c) Satellite communication
- d) Optical networking

Answer: a

10. IEEE 802.15.4 works mainly at:

- a) PHY and MAC layers



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- b) Network layer
- c) Session layer
- d) Application layer

Answer: a

11. Which protocol enables IPv6 over low-power networks?

- a) 6LoWPAN
- b) HTTP
- c) FTP
- d) SMTP

Answer: a

12. 6LoWPAN improves:

- a) Header compression
- b) Video quality
- c) Device storage
- d) Display resolution

Answer: a

13. RPL stands for:

- a) Routing Protocol for Low-Power and Lossy Networks
- b) Reliable Packet Layer
- c) Routing Process Layer
- d) Random Protocol Link

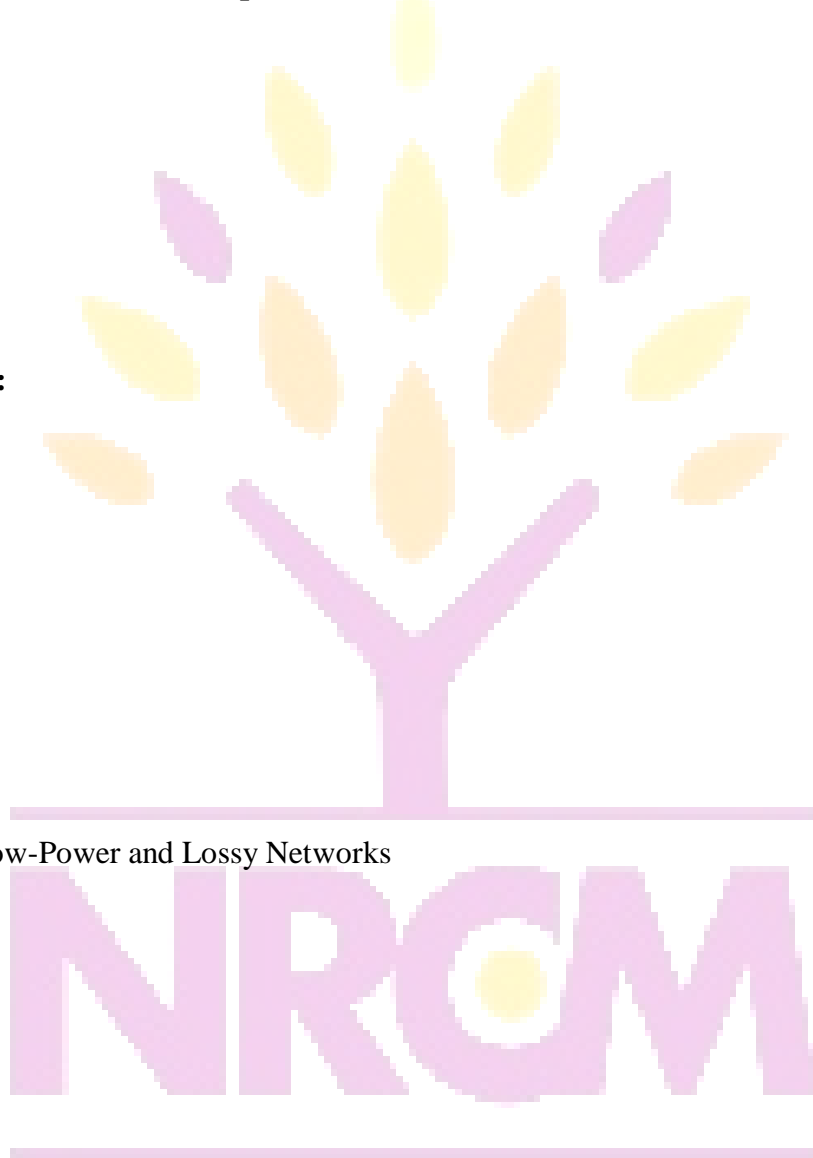
Answer: a

14. RPL is mainly used in:

- a) IoT routing
- b) Database access
- c) Email transfer
- d) Programming

Answer: a

15. Application layer security protects:



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- a) User services and communication
- b) Hardware only
- c) Memory only
- d) Storage only

Answer: a

16. Which security service prevents unauthorized access?

- a) Authentication
- b) Routing
- c) Compression
- d) Addressing

Answer: a

17. Encryption is mainly used for:

- a) Data confidentiality
- b) Data deletion
- c) Data routing
- d) Data transfer

Answer: a

18. Which layer interacts directly with IoT applications?

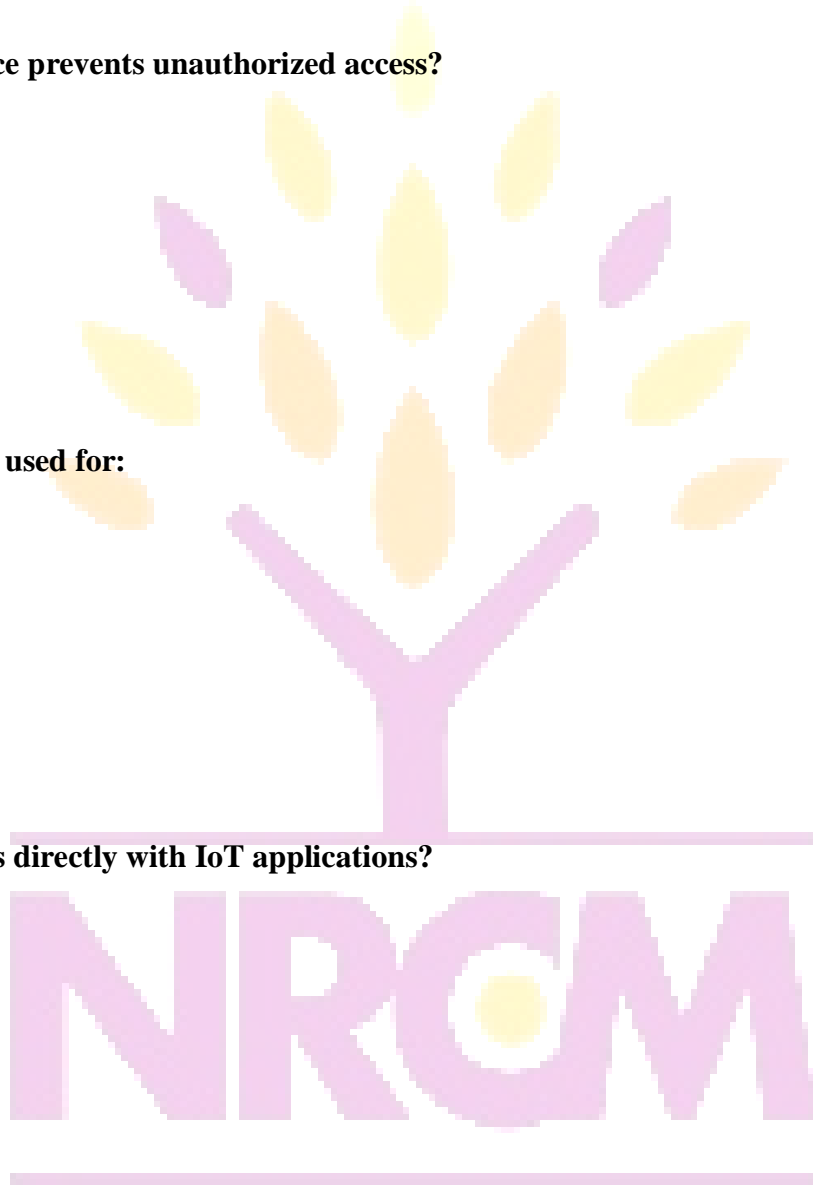
- a) Service Layer
- b) Physical Layer
- c) MAC Layer
- d) Data Link Layer

Answer: a

19. oneM2M architecture supports:

- a) Interoperable IoT platforms
- b) Satellite systems
- c) Optical networks
- d) Gaming platforms

Answer: a



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20. Secure IoT communication requires:

- a) Authentication and encryption
- b) Display devices
- c) Storage devices
- d) Compilers

Answer: a

Fill in the Blanks

1. oneM2M provides IoT service _____.

Answer: Standardization

2. ETSI supports _____ communication systems.

Answer: Machine-to-Machine

3. OMA stands for Open Mobile _____.

Answer: Alliance

4. BBF stands for Broadband _____.

Answer: Forum

5. IoT security ensures confidentiality, integrity and _____.

Answer: Availability

6. IEEE 802.15.4 supports low-rate wireless _____.

Answer: Communication

7. 6LoWPAN enables IPv6 over low-power _____ networks.

Answer: Wireless

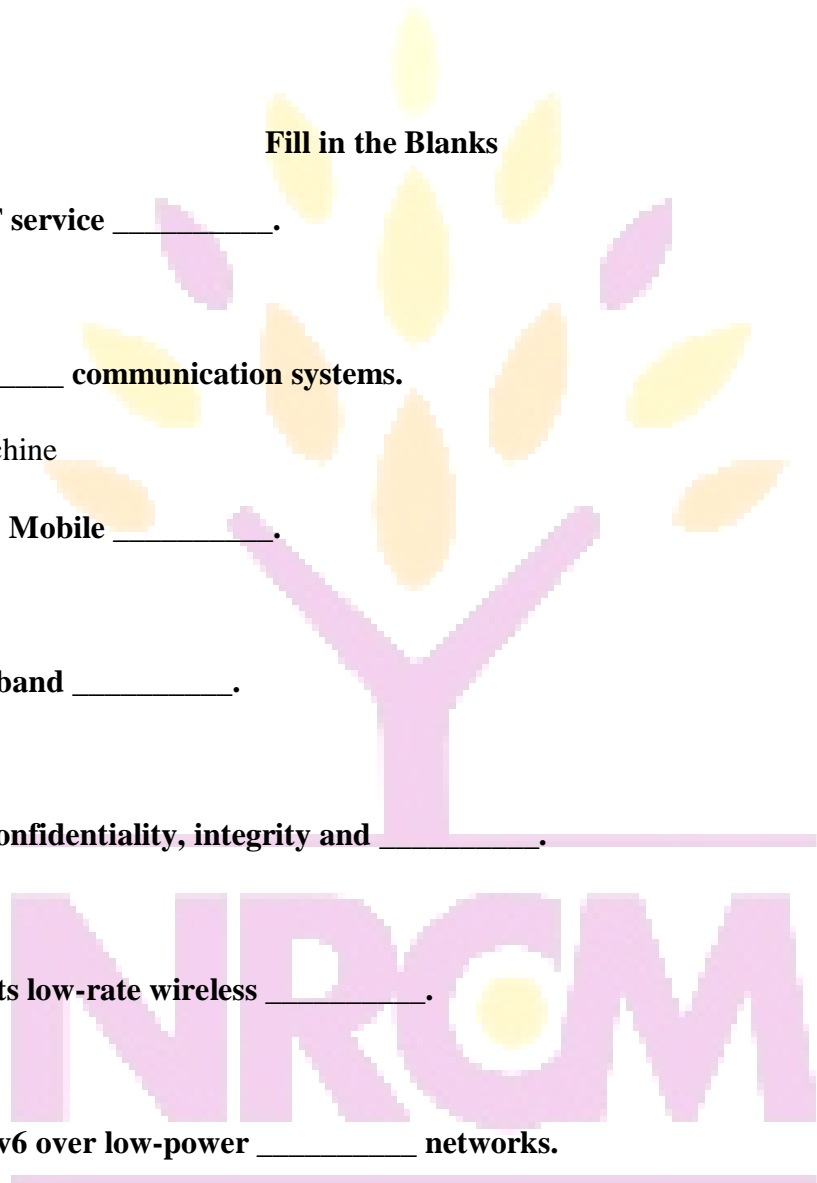
8. RPL is used for _____ in IoT networks.

Answer: Routing

9. Application layer security protects user _____.

Answer: Data

10. Encryption converts readable data into _____ form.



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Answer: Encrypted

11. Authentication verifies the _____ of users.

Answer: Identity

12. MAC layer controls access to transmission _____.

Answer: Media

13. oneM2M improves system _____.

Answer: Interoperability

14. Security mechanisms prevent unauthorized _____.

Answer: Access

15. RPL is designed for low-power and _____ networks.

Answer: Lossy

16. 6LoWPAN supports header _____.

Answer: Compression

17. Application layer protocols exchange _____.

Answer: Information

18. Secure communication uses _____ techniques.

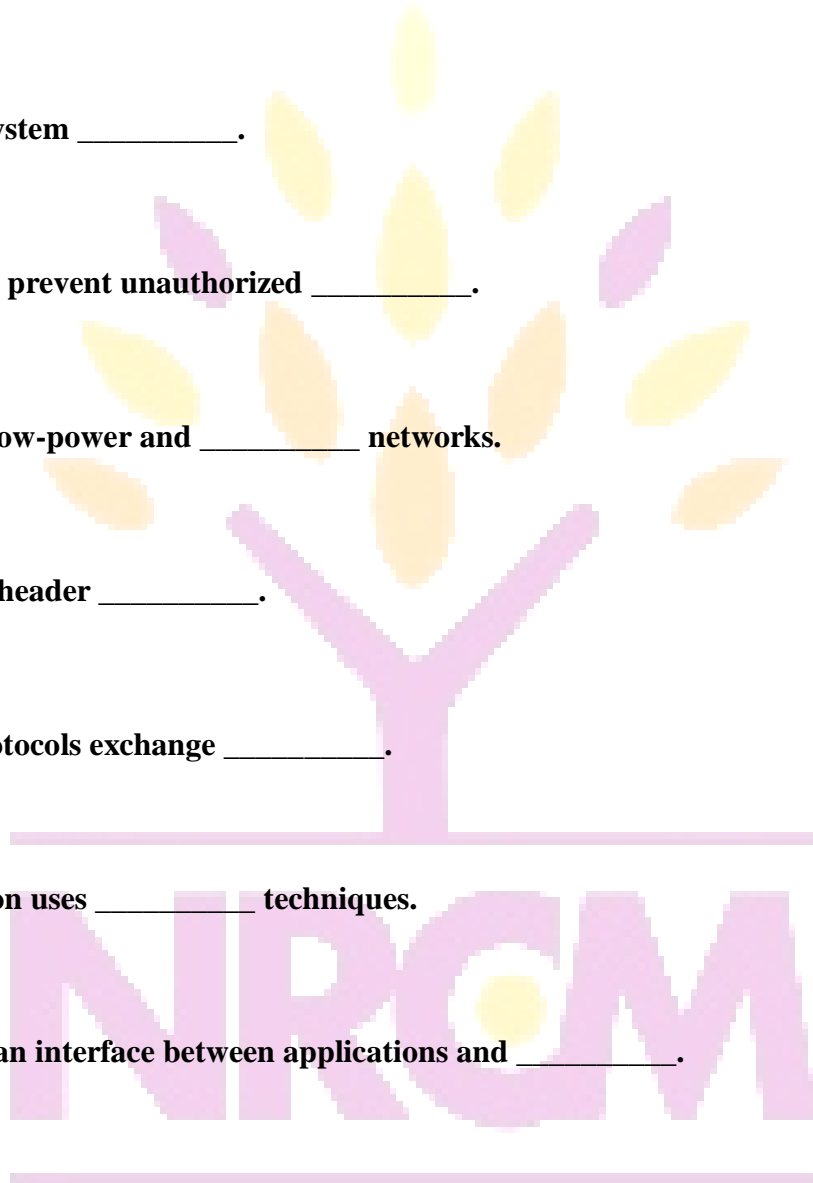
Answer: Encryption

19. Service layer acts as an interface between applications and _____.

Answer: Devices

20. IoT security protects device and network _____.

Answer: Resources



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