

1. The Challenges we face in designing sensor network system and application include

- a) Limited hardware
- b) Limited support for networking
- c) Limited support for software development
- d) All of above

2 Following MAC protocols have been developed for wireless voice and data communication networks.

- a) TDMA and FDMA
- b) CDMA and CSMA
- c) WLAN
- d) All

3. Following is not the type of controllers.

- a) Digital Signal Processors
- b) Field Programmable Gate Array
- c) Application Specific Integrated Circuits
- d) Microprocessor.

4. Characteristics of Transceivers are

- a) Data Rates
- b) Transmission power control
- c) Power efficiency
- d) All of these

5. _____ is the main signalling layer of DECT as well as _____ supports the call completion facility in a multi handset environment.

- a) Physical Layer, Cordless controller
- b) Data link layer, Radio fixed part
- c) Network layer, Network Specific Interface Unit
- d) Mac layer, Portable headset

6 What kind of battery panels are used in some advanced satellites?

P: Gallium Arsenide solar panel array

Q: Gallium Phosphate solar panel array

Select the correct answer from option given below

- a) Both P and Q

- b) Neither P nor Q
- c) Only P
- d) Only Q

7 Which of the following questions are/is true?

P: TCP groups a number of bytes together into a packet called packet

Q: TCP groups a number of bytes together into a packet called segment

Select the correct answers given below

- a) Both P and Q
- b) Only P
- c) Only Q
- d) None

8. In a typical sensor network, which of the following statements is/are true?

- a. Each sensor node has a microprocessor and a small amount of memory for signal processing and task scheduling.
- b. Each node is equipped with one or more sensing devices such as acoustic microphone arrays, seismic or magnetic sensors.

Select the correct answer from the options given below :

- a. Both a and b
- b. Neither a nor b
- c. Only a
- d. Only b

9. Which protocol assigns an IP address to the client connected to the internet?

- a. DHCP
- b. IP
- c. RPC
- d. RSVP

9. A single high power transmitter is replaced by many low power transmitters is known as

- a) Radio System
- b) Cellular System
- c) Frequency Distribution
- d) None

10. Which area network does not defines medium access control (MAC) as a sub layer of the data link presented in the OSI model.

- a. LAN (local area network)
- b. MAN (metropolitan area network)
- c. WAN (wide area network)
- d. None

11. While designing new routing protocols, _____ and _____ should be fulfilled by a network engineer.

- a. Node centric, Data centric
- b. Energy efficiency, Complexity
- c. Dynamic source routing, Proactive protocols
- d. Directed diffusion, Delay

12. Which of the following multiplexing techniques is used to transmit digital signals?

- a. FDM
- b. TDM
- c. WDM
- d. FDM & WDM

13. Which of the following statements is/are true?

- a. Digital European Cordless Telephony (DECT) is well suited to both domestic and business use.
- b. DECT is dynamic channel allocation and digital voice coding provide a voice quality comparable to a landline
- c. The DECT system is based on TCP principles.
- d. Both a and b

14. The transmitter-receiver combination in the satellite is known as a

- a. Relay
- b. Repeater
- c. Transponder
- d. Duplexer

15. Following are advantages of sensor network

P: Energy advantage

Q: Detection advantage

Select the correct answer from the option given below:

- a. P
- b. Q
- c. Both P and Q
- d. Neither P and Q

16. _____ is an interdisciplinary research area that draws on contributions from signal processing, networking and protocols, databases and information management, distributed algorithms, and embedded systems and architecture.

- a. Wireless networks
- b. Sensor networks
- c. LAN
- d. MAC

17. Why the size of the cell is kept small in cellular network?

- a) Increase capacity
- b) Decrease capacity
- c) Increased size of base station electronics
- d) Slow process of handoffs

18. What is handoff?

- a) Forward channel
- b) Switching technique
- c) Roamer
- d) Guard channel

19 The challenges we face in designing sensor network systems and applications include:

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20. It is more appropriate to address nodes in a sensor network by _____ than by _____.

- a. IP address, Physical properties
- b. Physical properties, IP address
- c. Physical Address, IP address
- d. None of the above

21. A sensor network is designed to perform a set of high level information processing tasks such as:

- a. Detection
- b. Tracking
- c. Classification
- d. All of these

22. Which multiplexing technique used to transmit digital signals?

- a) FDM
- b) TDM
- c) WDM

d) FDM & WDM

23. The sharing of a medium and its link by two or more devices is called _____

a) Fully duplexing

b) Multiplexing

c) Microplexing

d) Duplexing

24. In TDM, slots are further divided into _____

a. Seconds

b. Packets

c. Frames

d. Bits

25. A _____ is a collection of mobile nodes which are independent.

a. WSN

b. Ad-hoc

c. MANET

d. None of the above