

Royal College of Arts, Science and Commerce
TYBSc Computer Science Semester VI 2020-21
USCS601 Wireless Sensor Networks and Mobile Communication

Sample Questions

1. An interconnected collection of piconet is called _____.
 - a. scatternet
 - b. micronet
 - c. mininet
 - d. multine

2. A scatternet can have maximum _____.
 - a. 10 piconets
 - b. 20 piconets
 - c. 30 piconets
 - d. 40 piconets
 - e.

3. The rate at which messages are serviced by a communication system measured either in messages per second or bits per second.
 - a. Delay
 - b. Throughput
 - c. Robustness
 - d. Scalability

4. Event Mobility is also called _____.
 - a. Network Model
 - b. System Model
 - c. Domain Model
 - d. Frisbee Model

5. Both SPIN-PP and _____ are designed for point to point communication.
 - a. SPIN-BC
 - b. SPIN-CC
 - c. SPIN-AC
 - d. SPIN-EC

6. In the _____ method, after the station finds the line idle, it sends its frame immediately. If the line is not idle, it continuously senses the line until it finds it idle.
 - a. nonpersistent
 - b. 1-persistent
 - c. p-persistent
 - d. q-persistent

7. Which is not a cause for undesired energy wastage in WSNs?
- Sensing of events
 - Idle listening
 - Overhearing in case of densely deployed sensor networks
 - Collision of transmitted frames
8. The data link layer takes the packets from _____ and encapsulates them into frames for transmission.
- network layer
 - physical layer
 - transport layer
 - application layer
9. Which among the following represents the objectives/requirements of Data Link Layer?
- Frame Synchronization
 - Error & Flow Control
 - Both a & b
 - None of the above
10. TDMA is a multiple access technique that has
- Different users in different time slots
 - Each user is assigned unique frequency slots
 - Each user is assigned a unique code sequence
 - Each signal is modulated with frequency modulation technique
11. In _____ each station sends a frame whenever it has a frame to send.
- pure ALOHA
 - slotted ALOHA
 - both (a) and (b)
 - neither (a) nor (b)
12. In _____, the chance of collision can be reduced if a station senses the medium before trying to use it.
- MA
 - CSMA
 - FDMA
 - CDMA
13. Bluetooth supports _____.
- point-to-point connections
 - point-to-multipoint connection
 - both point-to-point connections and point-to-multipoint connection
 - multipoint to point connection

14. A entity where information is needed is called _____?

- a. Sink node
- b. Source
- c. Hop
- d. Sensor

15. Who controls a group of BTS or Cell Towers?

- a. HLR
- b. MSC
- c. BSC
- d. VLR

16. Odd Frequency range of mobile communication

- a. Very Low Frequency
- b. Medium Frequency
- c. Medium High Frequency
- d. Ultra High Frequency

17. Antenna having equal radiations in all directions

- a. Isotropic
- b. Directional
- c. Dipole
- d. Monopole

18. _____ shares a single carrier frequency with several users where each user makes use of non-overlapping time slots.

- a. FDMA
- b. CDMA
- c. SDMA
- d. TDMA

19. The interference between the neighbouring base stations is avoided by _____.

- a. Assigning different group of channels
- b. Using transmitters with different power level
- c. Using different antennas
- d. Using different base stations

20. Diffraction occurs when radio path between Tx. And Rx. Is obstructed by _____

- a. Surface having sharp irregularities
- b. Smooth irregularities
- c. Rough surface
- d. All types of surfaces