

Q.1 Select the best answer for the following MCQs.

1. It is a term used to describe communications between two or more devices without any physical connection:
 - A. Wireless communication
 - B. Data communication
 - C. Data transmission
 - D. Data manipulation
2. It is an electromagnetic wave propagated by an antenna:
 - A. Radio signal
 - B. Wi-Fi signal
 - C. Infra-red signal
 - D. Electric signal
3. All the Radio Frequency (RF) systems consist of _____ components:
 - A. Two
 - B. Three
 - C. Four
 - D. Five
4. It transmits a radio signal to a receiver, which listens for the signal and receives it:
 - A. Transmitter
 - B. Receiver
 - C. Sender
 - D. Compiler
5. It is a device, which can transmit and receive a radio signal and have a common circuitry in a single housing:
 - A. Transmitter
 - B. Receiver
 - C. Transceiver
 - D. Sender
6. Long distance wireless communication comprises of distances above:
 - A. 10 Km
 - B. 50 Km
 - C. 30 Km
 - D. 20 Km
7. Wi-Max covers a big range of:
 - A. 10 to 20 Km
 - B. 15 to 25 Km
 - C. 40 to 50 Km
 - D. 30 to 60 Km
8. Wi-Max creates a:
 - A. MAN
 - B. WAN
 - C. LAN
 - D. PAN
9. GPS provides the location in the:
 - A. World
 - B. Universe
 - C. City
 - D. Country
10. GPS stands for:
 - A. Global Positioning system
 - B. Grand Positioning system
 - C. Great Position system
 - D. Globalization Positioning system
11. For exchanging data over short distances, we use:
 - A. GPS
 - B. Bluetooth
 - C. Modem
 - D. NIC
12. It is an orbit directly above the earth's equator (at 0° latitude), with a period equal to the earth's rotational period:
 - A. GEO
 - B. MEO
 - C. LEO
 - D. AEO
13. It is located above low earth orbit and below geostationary earth orbit:
 - A. GEO
 - B. MEO
 - C. LEO
 - D. AEO
14. It is generally defined from the earth's surface up to an altitude of 2,000 km:
 - A. GEO
 - B. MEO
 - C. LEO
 - D. AEO
15. LEO is from _____ above the earth surface:
 - A. 160 km to 2,000 km
 - B. 1000 km to 2,000 km
 - C. 100km to 1,000 km
 - D. 180km to 1,500 km
16. Its purpose is to allow two computers to communicate with each other over the Internet:
 - A. Web Protocol Stack
 - B. Wireless Mark-up Language
 - C. Wireless Application Protocol
 - D. Wireless Software Protocol
17. It is based on HTML and XML and it delivers Internet contents to small wireless devices, such as browser-equipped mobile phones and other handheld devices:
 - A. Web Protocol Stack
 - B. Wireless Mark-up Language
 - C. Wireless Application Protocol
 - D. Wireless Software Protocol
18. It includes features that support relatively small display sizes of today's wireless devices:
 - A. Web Protocol Stack
 - B. Wireless Mark-up Language
 - C. Wireless Application Protocol
 - D. Wireless Software Protocol

19. It consists of multiple protocols that provide Internet access to mobile users of wireless phones and other wireless devices.

- A. Web Protocol Stack
 B. Wireless Mark-up Language
 C. Wireless Application Protocol
 D. Wireless Software Protocol

Answers:

1.	Wireless communication	2.	Radio signal
3.	Two	4.	Transmitter
5.	Transceiver	6.	50 Km
7.	40 to 50 Km	8.	MAN
9.	City	10.	Global Positioning system
11.	Bluetooth	12.	GEO
13.	MEO	14.	LEO
15.	160 km to 2,000 km	16.	Web Protocol Stack
17.	Wireless Mark-up Language	18.	Wireless Mark-up Language
19.	Wireless Application Protocol		

Q.2 Give short answers of the following questions.

Q1: Define wireless communication.

Ans. Wireless communication refers to technology that transmits information over short or long distance without using connecting wires. It is alternative to using network cables.

Q2: State the term "wireless".

Ans. The term wireless refers to the communication or transmission of information over a distance without requiring wires, cables or any other electrical conductors.

Q3: Name some important wireless technologies.

Ans. Some important wireless technologies are

- ⇒ Satellite
- ⇒ Microwave
- ⇒ Wi-Fi
- ⇒ Wi-MAX
- ⇒ Infra-red

Q4: Describe the function of wireless network.

Ans. A wireless network enables people to communicate and access applications and information without wires. This provides freedom of movement and the ability to extend locations to different parts of a building, city, or nearly anywhere in the world. Wireless works allow people to interact with e-mail or browse the Internet from a location the way they prefer.

Q5: Write down any three Advantages of Wireless Networks.

Ans.

1. Wireless networks can easily add users without having to change the physical connection.
2. Wireless networks provide robust security protections. Traffic of a wireless network can be filtered or simply blocked very easily.
3. Using wireless networks users are no longer tied to a specific location, as were with a wired connection. With a laptop computer or mobile device, access can be available at different locations.

Q6: Write any three Disadvantages of Wireless Networks.

Ans.

1. The main disadvantage of the wireless network is security breach. Intruders (hackers) can tap into a wireless network relatively easier than a wired network.
2. Another disadvantage is about its coverage that somewhere users might face problems of range of signals.

