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ICTU2041329

B.Sc.SEN

Level 3

ANSWERS

1 a)

Active scan and passive scan

During an active scan, the client radio transmits a probe request and listens for a probe response from an AP. With a passive scan, the client radio listens on each channel for beacons sent periodically by an AP

b) An **SSID** is a unique ID that consists of 32 characters and is used for naming wireless networks. When multiple wireless networks overlap in a certain location, **SSIDs** make sure that data gets sent to the correct destination. The **SSID** is different than the name that is assigned to a wireless router.

Beacon frame is one of the management frames in IEEE 802.11 based WLANs. It contains all the information about the **network**. **Beacon** frames are transmitted periodically, they serve to announce the presence of a **wireless LAN** and to synchronize the members of the service set.

2 a, b)

Amplitude Modulation

Amplitude Modulation is a technique by which the amplitude of the carrier wave is changed according to the signal wave or modulating signal. Among various modulation schemes, amplitude modulation is the simplest and oldest modulation technique.

Frequency Modulation

Amplitude and phase of the carrier wave remains unchanged and only the change in frequency is noticed in case of frequency modulation. Hence, information is transmitted by the frequency variation in the case of FM

Phase Modulation

Phase modulation is another type of angle modulation in which the phase of the carrier wave is changed according to the amplitude (magnitude) of the message (modulating) signal.

3) Multiple Access nodes

It is a device typically installed in a telephone exchange (although sometimes in a roadside serving area interface cabinet) which connects customers' telephone lines to the core network, to provide telephone, ISDN, and broadband such as DSL all from a single platform.

4) Broadcast radio frequency 92.7megahertz, area of application via cable FM, the net and satellites

Bluetooth frequency area of application wireless communication market, frequency 2.402 and 2.480 GHz