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Part - B (Long Answer Questions)

1	Explain the concepts of Mediation Device protocol.
2	Elaborate on the requirements of MAC protocols for WSNs.
3	Discuss the PAMAS protocol in detail.
4	Explain the design approaches and performance of S-MAC protocol
5	Describe the Low Energy Adaptive Clustering Hierarchy.
6	Explain the important classes of MAC protocols.
7	Explain the concept of TRAMA protocol.
8	Discuss the distributed assignment of network wide and locally unique MAC address for WSN
9	Elaborate on the concepts of Energy Efficient Unicast Routing Protocol
10	Discuss the basics of Position Based Routing Protocol for WSN.

CIE-II

1	Can the MAC protocols of 802.11 & Bluetooth be used for WSN? Justify
2	State the mathematical model of energy consumption during transmission & reception of a transceiver
3	Consider the third iteration of leach protocol. If the desired number of nodes per cluster is 10, what is the threshold calculated for a node during its random number generation.
4	Briefly specify IEEE 802.15.4 MAC protocol.
5	Explain in detail about sparse topology and energy management
6	Explain about geographical routing protocol.
7	Explain how duty cycled approach is used to transit between listen state and sleep state in S-MAC control
8	Discuss the working procedure of IEEE802.11 in wireless sensor network.
9	Explain geographical forwarding
10	Explain data centric routing protocols.

Part - C (Analytical Questions)

1	Discuss about content-based addressing in detail
2	Explain briefly the address assignment algorithm.
3	Describe in detail about SMACS
4	Explain efficiency by in-network processing
5	Discuss the random geometric graphs

CIE-II

1	Explain in detail model of RSG
2	What are the general communication issues?
3	Explain the problem localization.
4	Discuss the communication RF
5	List out the broadcasting techniques

**UNIT-IV
INFRASTRUCTURE ESTABLISH**