**Topic:** Cluster head and routing

1. Architecture of WSN and how it is different from other wireless networks?
2. What are the different WSN topologies?
3. What is a cluster? What are the issues with the clusters? What are the different clustering architectures?
4. Detailed study on cluster head selection category: deterministic, adaptive and combined metric (hybrid) – P3
5. Detailed survey on LEACH protocol - EECHS-MWSN, LEACH-MAE, etc. – P4
6. What is energy hole problem in WNS? [P1]
7. How cluster head and routing are related?
8. What is a routing protocol? Different routing protocols of Wired and wireless networks with classification? What is the need of different routing protocols in WSN?
9. WSN routing and cross layer protocols classification – P2, P7, P8
10. MADM based routing in WSN – P2
11. How the cluster head selection and routing algorithms affects (related) new area of applications of WSN, such as, IoT, e-health, e-agriculture, smart city?

Continued ….