

Modulation → Analogue → FM  
 ASK PSK FSK

## WSN (Wireless Sensor Network)

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1. Working of WSN ? Architecture of WSN (Ans to write)
2. What is Gateway and how does communication take place between internet and WSN
3. MANET V. Imp  
 g. Mobile I.P. Explain 2 scenarios where mobile change from 1 location to other.
4. Tiny OS
5. Location based Routing (GPS) ~~SPIN also learn all routing~~
6. Flat architecture (CrossLink) Ans
7. Routing in MANET (OSPF, RIP, BGP)
8. Multiplexing (FDM, TDM) <sup>2 diagram</sup>, Demultiplexing <sup>3 diagram</sup>
9. Modulation (What is modulation? Explain any 2 analogue modu.)
10. Challenges of WSN device design.
11. Application of MANET
12. Application of Sensors networks.
- Options → 13. Arch. of GSM
14. What is antenna? Explain 2 types of antenna.
15. What is TCP, features of TCP, Packet format of TCP
16. " " UDP

# Ethical Hacking

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1. CIA

2. Virus, life cycle, types, Worms, Trojan horse, Logic bombs, Trap door,

3. What is database, need of database, attack on database.  
(Ans. SQL injection)

4. IDS, Method to detect attack

5. Attack (Passive, Active)

6. Phishing (IP Spoofing, IP Phishing)

7. 3 <sup>As</sup> are in security (Authentication, Authorization, Availability) <sup>with examples</sup>

8. DoS and DDoS attack

9. Hackers and types of hackers

10. Firewall and types of firewall (Any 2) or  
Explain packet filtering & app. level firewall.

11. Your own case study or (Wannacry, Yahoo, Uber, Bad rabbit)