**Question Bank for Unit 2 ACN - SONET, Wireless and Mobile Networks**

1) Discuss about a simple SONET network with a neat diagram.

2) What are the devices and connections used in SONET network?

3) Discuss the layers of SONET and the device-layer relationships.

4) Discuss the frame format of SONET STS-1.

5) Discuss about SOH in STS-1 frame with description of each byte.

6) Discuss about LOH in STS-1 frame with description of each byte.

7) Discuss about POH in STS-1 frame with description of each byte.

8) What is an SPE? Discuss the importance of H1, H2 and H3 pointers

9) Explain STS Multiplexing in detail.

10) Explain the concept of Byte interleaving used in SONET.

11) Explain about the linear networks of SONET.

12) Explain the different APS schemes used in SONET Linear Networks.

13) Discuss about UPSR and BLSR in detail.

14) What are sonnet mesh networks? Explain.

15) Discuss the different categories of VTs used in SONET.

16) What are the elements of Wireless networks? Explain with neat diagram.

17) Discuss the wireless link characteristics.

18) Discuss the hidden node problem and Exposed node problem in wireless networks. How they can be solved?

19) Discuss the architecture of 802.11 networks.

20) What is Wi-Fi jungle?

21) Discuss the 2 types of scanning used in wireless networks.

22) Discuss the importance of RTS and CTS frames in 802.11.

23) Discuss CSMA/CA in detail.

24) Discuss the frame format of 802.11.

25) Discuss the addressing schemes used in 802.11.

26) Discuss the components of cellular network with a neat diagram.

27) Discuss the terminologies used in the mobility management of cellular networks.

28) Explain indirect routing in cellular networks. (It includes registration and indirect routing)

29) Discuss direct routing methods in cellular networks.

30) Discuss the 3 components of mobile IP standard in detail.

31) Explain the mobility management in GSM Networks,

32) Discuss the handoff process with common MSC in GSM Networks.

33) Explain how handoff happens between MSCs in GSM Networks.