**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)

10) Discuss the OSI reference model with the description of each layer.

11) Compare OSI model with TCP/IP model.

12) Explain switched network with an example topology.

13) Discuss the characteristics of Virtual Circuit Switching.

14) Discuss the characteristics of Packet Switching (Datagram Networks).

15) Explain in detail the Set up phase of Virtual Circuit Switching with an example topology.

16) Discuss how much delay will be there in Virtual Circuit Networks and in Datagram Networks.

17) Discuss about the Crossbar switch used in Circuit Switching.

18) Discuss in detail about the working of Multistage switched used in Circuit Switching.

19) What are the drawbacks of Multisttage switches? How it can be solved using Clos criteria.

20) Discuss the Time Division switch with a neat diagram.

21) Discuss the structure of a packet switch.

22) Discuss the structure of Banyan switch.

23) Discuss how Routing happens in Banyan switch with 2 examples.

24) What is the drawback of Banyan switch? How it can be solved?

25) What are the two sublayers of the Data Link layer? What are their functionalities?

26) Discuss the characteristics of Standard Ethernet with its Frame format.

27) Discuss the Frame Format of Ethernet with the description of each field.

28) Discuss the Access method of Ethernet in detail.

29) Write a note on Ethernet addresses.

30) What do you understand by the term Collision Domain.