1. Streaming video systems can be classified into three categories. Name and briefly describe each of these categories.

**- HTTP streaming:** It is used to store videos in the server as a file. The URL is used to reach the file in the server. The URL is provided to the user by the server.

**- UDP streaming:**  It is used to stream the video by the connection of server.

**- Adaptive HTTP streaming: I**t provides the bandwidth of the video stream. It is used to stream the data according to the client’s bandwidth.

1. List three disadvantages of UDP streaming

-UDP can fail to provide continuous streaming

-A lot of firewalls block UDPs

-It requires media control server, to process client-to-server interactivity

1. What is a packet that is received after its scheduled playout time considered lost?

-From the perspective of the application the packet is lost, as long as the playout received after its schedule.

1. How are different RTP streams in different sessions identified by a receiver? How are different streams from with the same session identified?

- RTP streams in different sessions with multicast addresses, RTP streams in the same session in SSRC field.

1. What is the role of a SIP registrar? How is the role of SIP registrar different from that of a home agent in Mobile IP?

-The role of a SIP registrar is to keep track of the users and their corresponding IP addresses which they are currently using. SIP registrar keeps the track of its clients. Mobile IP uses the technique of tunneling of packet and this introduced some difficulties in smooth communication. SIP, being implemented in application layer supports the mobility intensively and efficiently.