

INU PESH

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Programme : Bs (Telecom)

Subject : QoS

Assignment : # 1

Submitted to :

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Q# 1 :

Differentiate in detail between the Integrated and Differentiated Services ?

Answer :-

The main difference between integrated Services and differentiated Services is that integrated Services involve prior reservation of resources before achieving the required quality of Service, while differential Services mark the Packets with priority and send it to the network without prior reservation.

# Integrated Services Versus

## Differentiated Services :

Integrated Services	Differentiated Services
Architecture that specifies the elements to guarantee Quality of Services (QoS) on network	Architecture that specifies a simple and scalable mechanism for classifying and managing network traffic and providing QoS on modern IP networks
Involve prior reservation of resources before sending to achieve the required Quality of Service.	Mark the packets with priority and send it to the network and do not require prior reservation
Also called Int Serv	Also called Diff Ser
Not Scalable	Scalable
Involve per flow setup	Involve long term setup
Involve end to end Service Scope	Involve domain Service Scope

Q# 2 :

Explain the following QoS Management functions :

- Flow Identification
- Scheduling

Answer :-

- **Flow Identification** : The CAM performs the comparison between the fields of data packets that uniquely identify a certain flow between two computers. The comparison is performed in parallel for all the words in the CAM, which allows obtaining the result of the comparison in a single clock cycle.

- Scheduling :

Scheduling is the process of mapping a packet to an internal forwarding queue based on its QoS information and servicing the queues according to a queuing method.

A WRR algorithm is used to rotate service among the eight queues on the FastIron devices.