

Date: __/__/20__

Assignment NO #03:

Data Communication Network

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Submitted to:

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Question No # 01

Ans:

Development of new version of internet protocol:

The IETF in 1992, decided to develop a new version of Internet Protocol because the available addresses space of IP Version 4 (IPv4) will probably run out easily in 21st Century.

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Question No # 02:

Ans:

IPv4 and IPv6 provide best effort service for higher layers only. many multi-media application needs more than this: the IETF thus defined new version to complement best efforts one. IPv6 RSVP and RTP provides significant support for multi-media applications.

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Question No # 03:

TCP and UDP support real time data transfer and don't support Synchronization between two or more streams or with in a single stream. Thus not sufficient for real time application.

It can be solved by using RTPS real time transfer protocol for multi-media communication.

Resource reservation protocol can also be used for real time application.

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Question No # 04:

DNS:- Domain name system.

FTP:- file transfer protocol.

HTTP:- hyper text transfer protocol.

ICMP:- Internet control message protocol.

IETF:- Internet Engineering Task force.

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IP :- Internet Protocol

Mbone :- multicast backbone.

RTP :- Real-time transfer Protocol.

RTSP :- Real-time streaming protocol.

RTCP :- Real-time control protocol.

RIP :- Real-time Information protocol.

RSVP :- Routing Reservation protocol.

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Question No # 05:

Ans:

Connection oriented means a logical or semi permanent connection that must be established between two process before transferring data.

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Question NO # 06

Ans:

Unicast:

only a single interface receive a packet sent by unicast address.

Multicast:

In multicast address, multiple interfaces receive a packet.

Anycast:

it belongs to different IP address, in a subset one interface receive a packet sent by anycast.

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the END: