



# NORTH SOUTH UNIVERSITY

## Midterm Examination Fall-2021

**COURSE CODE:** CSE438

**SECTION:** 02

**STUDENT NAME:** MD ABU SAYED FAHIM

**STUDENT ID:**

1	8	1	2	5	3	4	6	4	2
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QUESTION ANSWERED:

Q. NO

TOTAL MARKS OBTAINED:

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Answer NO - 01

Here are five connections exist among the given network components.

Laptop, Router, Server, Switch, PC..

	HUB	SWITCH	ROUTER	PC
HUB	Crossover	Crossover	Straight	Straight
SWITCH	Crossover	Crossover	Straight	straight
ROUTER	Straight	Straight	Crossover	Crossover
PC	Straight	Straight	Crossover	Crossover

Connection (1) : Laptop to Router..

We need a serial cable to attach as per the zig zig sign is used for serial cable connection.

Connection (2) : Laptop to Laptop

Required Crossover cable.

Connection (3) : Switch to Router

Required Straight cable.

Connection (4) : Server to Switch

required Straight cable.

Connection (5) : PC to Switch Required

Crossover cable.

Answer No: 02

Transport layer Protocols lie between user applications and the network.

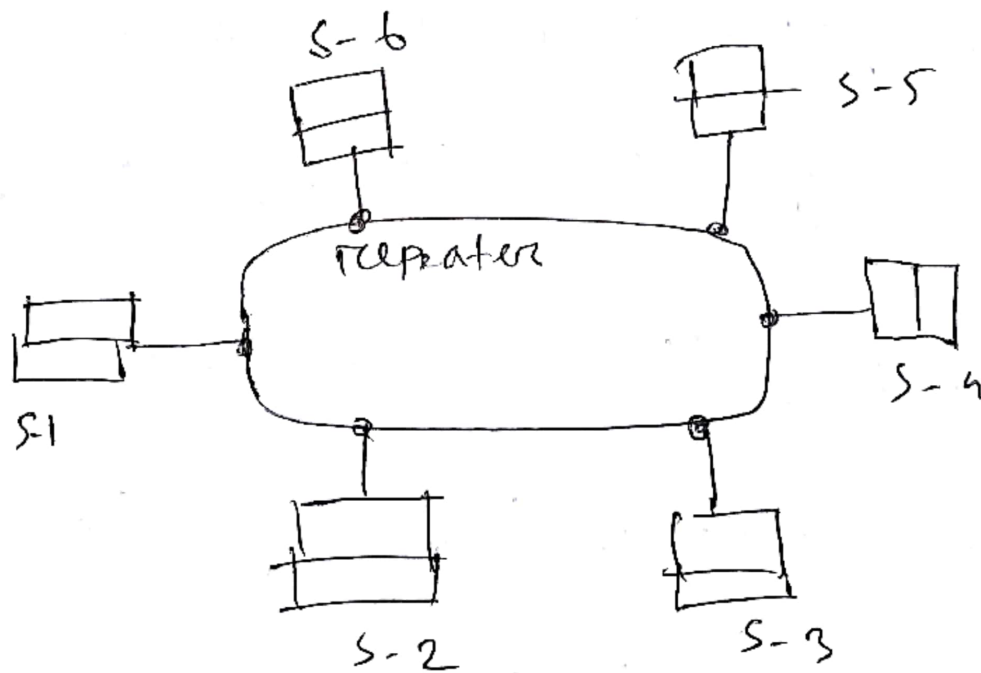
TCP and UDP are the two protocols of the transport layer.

TCP (Transmission Control protocol):

TCP is one of the main protocol of networking. The main focus of TCP is providing full transport layer service to applications. It is a connection oriented protocol. It allows two computers connect and communicate between each other.

UDP ( User Datagram Protocol ) :

The User Datagram Protocol is a very simple type of protocol which provides non sequenced transport functionality. It is used for multicast and broadcast type network transmission. It speeds up transmission.



According to the above illustration.

It is a ring topology. Here a

ring topology is connecting six

stations. This is called ring

topology. Here all the stations

are connected as a ring. If

one station is unplugged it won't

affect the topology much. Rather

the unplugged station won't receive

any data. This is happened because

every station is connected with

their own connection. So, if we

Unplugged any of station, Rather  
than disconnecting that station it  
won't effect topology more.