## DEPARTMENT OF -- ECE

## ANSWER KEY SUBMISSION

Date of Exam & Session	07-02-2023 S AN.	Category of Exam	CIVAL/CLA2/CLA3/SURPRISE TEST
Course Name	COMPUTER COMMUNICATIONS	Course Code	18CS3202J.
Name of the Faculty submitting	Dr. M. SHUNMUCATHANK	Date of submission of Answer Key	09-02-2023.
Department to which the Faculty belongs to	ECE 1	Total Marks	25

- A. Prootocol
- 2. A. Simplex

- 5. A. Broadcast network.

PARTB (2X4 = 8 marks)

6. Disting wish between circuit Switching & Packet Switching.

circuit switching also leads to a single has been divided into path for establishing connection Smaller units along with between a points.

2. A circuit needs to be established to make Sure that data framsmission takes place

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Packet Switching A Single connection which I.A packet is simply data that transfer Containing Signal Enjormation

2. Each packet containing the information that needs to be processes ed goes through, dynamic soute.

Signature of the Faculty

3. A Uniform path is followed throughout the Jessoon.

4. It is most ideal for Voice communication, while also heeping the delay Uniform.

packet

There is no uniform path that is followed end to end through the Session.

It is used mainly for data transmission as The delay Es not Uniform.

transmission modes and its List out data working concept:

Communication is unidirectional. Only one of the two devices on a link can toomsnut; the other can only receive.

Ex: keyboard

\* Each station can both toansmit and Half duplex. Receive but not at the same time.

& when one device is ending, the other can only receive and vice versa

Ex: Walkie - talkies.

full-duplex \* Both Stations can transmit and receive I amultameouls y.

Ex. Telephone n/w. Page 2 of 6

Protocols / Standards.

In tele communications, a communication Protocol is a System of rules that allows two or more entities of a communications System to transmit information via any kind of Variation of a Physical quantity. \* These are the rules or Standard that defines the Syntax, Semantics and Synchronization of communication and possible error recovery

\* protocols may be implemented by hardware, software (on) both.

\* Standards are guide lines, there are more abstract

Part C CIXI2 = 12 marks)

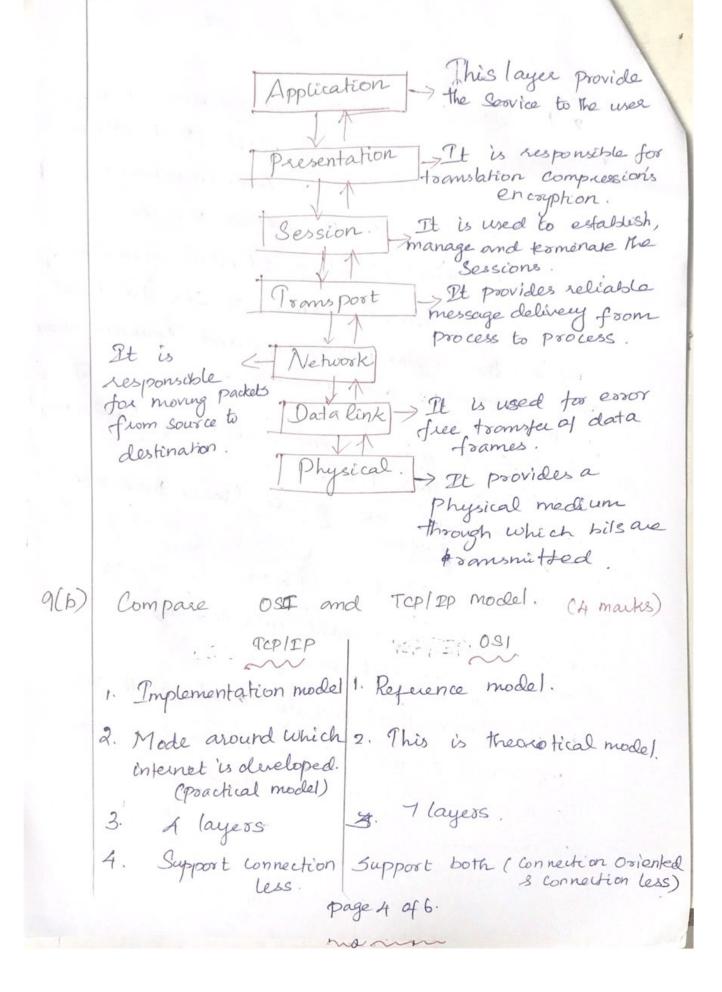
\* OSI model is divided into two layers (8marks) upper layer and lower layers.

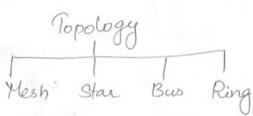
A The upper layer mainly deals with the application related issues, and there are implemented only in the Software.

A The lower layer is deals with the date transport issues.

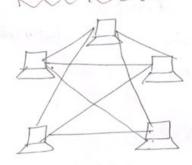
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Mesh Topology.



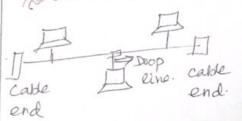
- 1. fach device has a dedicated.

  Point to point link to every other device.
- 2. A mesh n/w with n nodes
  has n(n-1) links [n(n-1)/2 in case
  of duplex]

STAR TOPOLOGY
Hub.

- Point to point link only to a central controller, wally called a. hub.
- 2. The devices are not directly linked to each other.

BUS TOPOLOGY



- is multipoint.
- eino. cable 2) One long cable act as a backbone to link all the devices in a n/w.

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