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## University of Asia Pacific

Mid-Term Examination of Spring, 2020

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Semesten: 3-1 (A)

Course Code: CSE 303

Course Title: Data Communications

Date: 25/08/20

## Ans to the question no-01

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Here, 
$$X = 1+1 = 2$$

$$Y = 2+1 = 3$$

For mesh topology, we know, if there are non- if there are non- if there are non- in the are non- in the are non- in the are non-1)/2 links

Here links need for mesh topology, = 2(2-1)/2

2 2/2 = 1 linh

Fore stare topology, re know, it there are n nodes
one devices, there need n links.

.. Herre links need for star topology = 3 links

If I were to choose between two topologies for a more secure notwork I will prefer stare topology. Because each of the nodes is independently connected to the central hub, should one go down, The trust of the network will continue functioning unaffected, making the start topology a stable and securce network. One has to ensure that the hub on central device is always working and extra security feat features should be added to the hub because it is the best part of the network is now in Moderal and

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## Ans to the mestion no -04

Here, 
$$X = 141$$
  
 $Y = 241$ 

## And to the question no-04

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Differences between bandwidth and throughput \_

Bandwidth 1 The 1st

Throughput

- in specific period of time. time
- 3 Physical layer of OSI model.
- 3) Not impacted by physical obstruction.

- 1) Data capacity of a channel (1) Actual measure of Leta transferenced which can be transferred over a specific period of
  - @ Any layer of OSI model.
  - 3) Highly impacted by external interference
- 1) There is no dependency 1 Dependent on latency.

D. P. F

Bandwidth

15 & greater than throughout because bandwidth provides us with a theoretical measure of the maximum number of packets that can be transferred and throughput tells us the number of packets that are actually being transferried. To mayor part to the mayor losicyon to . tolen del a 1 Lotospani xldy H (C) gd Lotogri Nen (c

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