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Subject :- CCN

x ~~~~~ x ~~~~~ x

Q1:-

a)-

Ans:-

- i)- Ring
- ii)- Protocol
- iii)- Reliability
- iv)- Digital to Analog
- v)- Physical layer
- vi)- Physical
- vii)- Message
- viii)- Mesh
- ix)- Periodic
- x)- 56.6 , 33.6
- xi)- 10
- xii)- Transport layer
- xiii)- Analog to Digital
- xiv)- Frequency.

x ~~~~~ x ~~~~~ x

*** ← ○ → ***

Q2:-

a)-

Ans:-

1)-

Frame is a data unit used in data link layer, on the other hand a packet is the protocol data used unit used in the network layer.

Frames are formed in data link layer of the OSI whereas packets are formed in network layer.

2)- As a computer transmit data which is expressed as electrical impulse, whereas telephone transmit voice frequency as analog signals to transmit digital data the sending modem must first module, or encode a computers data signal into an analog signal that can travel over the phone.

⇒ Example:-

Digital phone sending high speed data over phones lines new communication system are over digital. Analog is slowly on its way out.

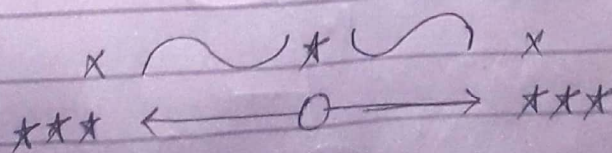
3)- Fault tolerance is the property that enable a system to continue operating properly in the event of the failure. Some are more faults have in some of its components. Mesh topology have multi-connections making it the most fault tolerant topology available every component of network is connected directly to each other.

component.

4)- Logical:-
 → It is the virtual addressing generated by CPU.
 → Set of all logical addressing generated by CPU is reference to a programme is required as logical.
 → The user can view the logical address of a programme.

⇒ Physical:-
 → The location is a memory unit.
 → It is mapped to corresponding logical addressing as physical addresses.
 → The user can never physical address of program.

5)- Local telephone company wants to connect the LAN's in all its offices in the city for this case the Ring network category would be used.



P.T.O
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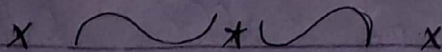
(4)

Q3:-

a)-

Ans:-

There are 3 hops required for data to reach from node A to node J.



b)-

Ans:-

Given data:-

$$F = 135 \text{ Hz}$$

Required:-

$$T = ?$$

Solution:-

As we know:-

$$T = \frac{1}{f}$$

$$T = \frac{1}{135}$$

$$= 0.0074$$

$$\{ T = 0.0074 \text{ sec} \} \text{ Ans?}$$

The End,,,