

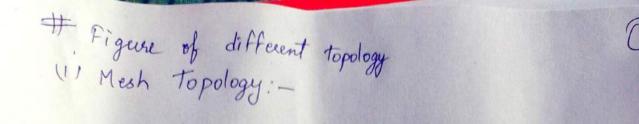
GALGOTIAS UNIVERSITY

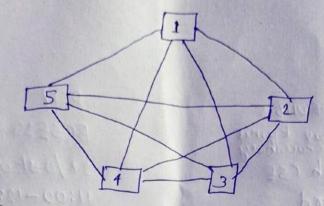
CAT I Semester III, V, VII, IX All Programs Answer uploading Template

Admission No. of Student Name of Student	21SCSEID11615	Name of Course	DCN
Program	Abhinav kumas choudhasy	Course Code	BCSE 23 70
Semester	B. Tech CSE	Date of Examination	28/09/2022
Signature of Student	Third	Time	11:00-12:30
Student shall start v	Abhiran kuma	r chy	10101 101

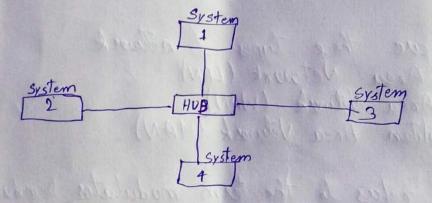
Student shall start writing from below:

Any O There are three types of network LII Local Area Network (LAN)
11 Local Area Network (LAN)
(ii) Wide Area Network (WAN) (iii) Metropolitan Area Network (MAN)
Modern refus to the term modulator Demodulator
1 Modern refus to the term modulator Demodulator. It converts the digital data signal into the analogue data signal. It connect your compute home, usually through a coax cable connection, to your internet Service Provider (ISP).
home, usually through a coax color computer
to your internet Service Drawides (ISP).
dry 3) Network topology and of 18
arrangement of links and node peometric
compuling network It makes the direct
Ars 3) Network topology refers to the geometric arrangement of links and nodes in a computing network. It makes the direct link between many computes:

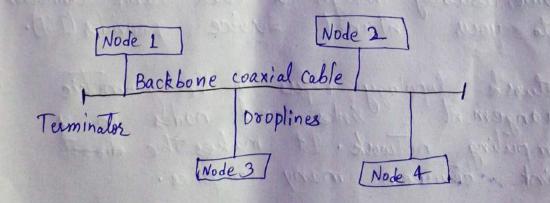




(ii) Star Topology



(iii) Bus Topology: -



ypes of not	(3)
Mesh T topology are:-	
Mesh Topology:- Connected Theory another device is particular channel In this Topology protocols	
In this topology every day	
connected the total and write is	•••
Parlicular Charles device Via a	
like AHCP NUCL IN this topology prolocols	
particular channel In this topology protocols like AHCP, DHCP, are used	
1.0.palogy -	
Connected to a single hub through a co	e
Connected to a single hub House	112
In this Topology oxotoxal I'll	ble.
(11) Bus Topplon ;	used.
In this Topology protocols like CD, CSMA, are [iii) Bus Topology:- It is a network type in which every computer a network type in which	
ever the is a nework type in which	
through a single cable. In this protocols I	cled
Inough a single cable. In this protocols	4
TDMA, Pure Alpha, CDMA, Slotted Alpha, etc use	1
Diagrams our on the same	al.:.
Diagrams are on the page no-2	
(1) Pulse code modulation; -	
sampled analog signals. It is the stand form of digital audio in computers, compare in other digital audio applications.	
sampled analog in a digitally sep	resent
P 1 + 1 grass 17 is the stand	lexed
form of digital aridio in computers, compa	I disk
In other digital audio applications.	
1	
(2+) ASK: - Amplitude Shifting keein is the	
changing amolitude of the	S
the calties signal	with
(24) ASk: - Amplitude Shifting keeping is the a changing amplitude of the carries signal respect to the binary information or digital signal.	1
signal:	

a	9	W.
8	4	4
k	7	20
		4

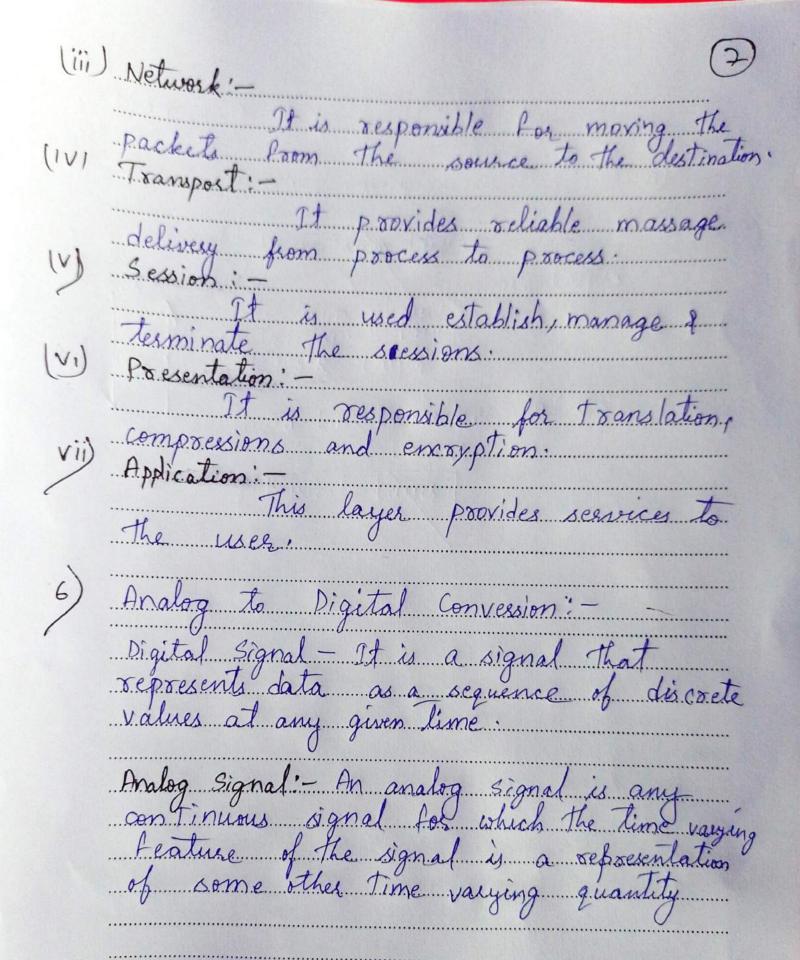
(iii) Fsk .—
method of transmitting digital signals using discrete signals. The two binary states— logic o (low) of 1 (high) each are represented by an analog waveform.
(1) PSk:_
Phase-Shifting keying is a digital modulation process which conveys data by changing the phase of a constant frequency reference signal. It is widely used for wireless LANS, R.F.I.D. I. BlueTooth cornections
Wiseless LANS, RFID & Blue looth American
(V) DelTa modulation'-
(V) DelTa modulation :- Delta modulation is an analog to digital & digital to analog signal Conversion Technica at
conversion Technique. It is employed to realise high signal to noise ratio.

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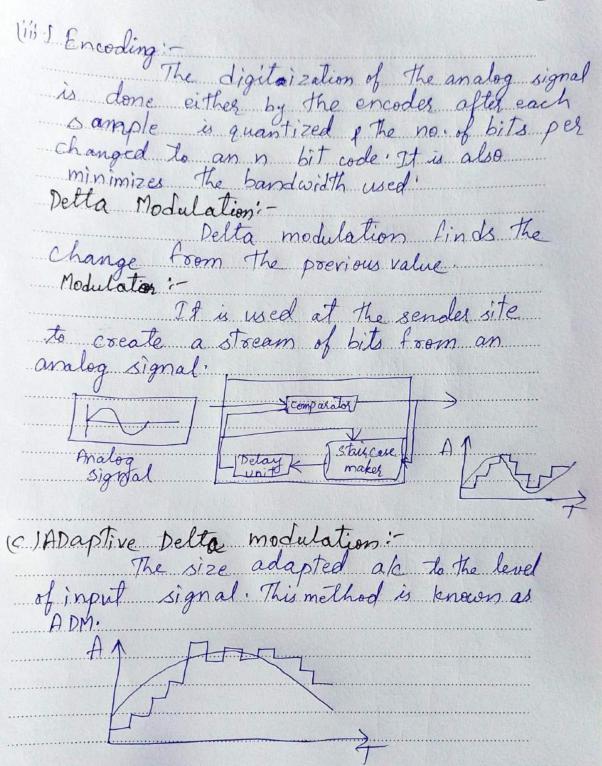
> OSI stands for open system Interconnections Physical layer

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Diagram of OSI model [Application layer]) Software Layers Presentation layer Sender Winds SO Session Layer Heart of OSI Transport Layer]. Receiver Network Layer K su lead as Data-Link Layer Hardware Layers Physical Layer K they sawed the application related issues in il Losses larges: - To his and dels with the data transfel was. Tide are seven Ositurus:-- will horized to Espiros hough which all on one rade la main mode. in the line to the transless of data from one note to motion



The following teal
The following techniques comession: (a) D. O.
(a) D
@ Pulse code Modulation:
mange anotos to distal data is ralled
PCM. It has three porcessors! -
mening - the first slep in PCM is
the continuous time of a measuring
til Attent 2 ation + Not I sampling
Sampling - The first step in PCM is measuring the continuous-time signal at discrete signal and discrete signal Amplitude
Time
* Flat top Sampling:-
Amplitude IIIII Tome
Time Time
(ii / Quantization:
series of pulses with complitude values b/w the maximum & minimum amplitude
series of pulses with amplitude values
b/w The maximum & minimum amplitude
of the signal.
The following steps in quartization: is Assume signal has amplitude blus Vman Vmin
(i) His wide L zones of height d
d = (V man - Vmin)



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