Ln formation Technology Q1: Write a short note on Artificial Intelligence. Artificial intelligence is a branch Aretificial intelligence Rate is being innex body without answer. Give the applications b as a translator human languages. being used in rebotics to trained for specialized or general tasks is being used to automate cars. is being used in Agriculture Fields also. mark and should be on around 2 sides of a basic buses (c) Draw Basic Computer block diagram (D) classify computer on their shape 1 stands Read Only

RAM ROM	
O RAM Stands for Random It stands for R	end only Men
The state of the s	Card only lestemory
@ It is a valatile It is a non-	voltaile mamory
memory.	_ 0
3 9+ 15 Fast. 9+ is slowed	is compared to RAM
dd more points in differences.	permanently.
Ans: (B)	
There are three types of buse computer.	es used in
Data Bus:	
from one part of the computer	tarry data
De 3) but My 6(1 but	10 another
Address Bus:	1
Address Bus is used	to carry
addless to which CPU or other	part com
First we carry address thou	)
Then we	used data
bus for carrying clater.	used data.
Control busi	used data
Control bus is use	a to control
Control bus is use	a to control
Control bus is use all the Communicat among the parts. It plays a Key role to	a to control
Control bus is use all the Communical among the parts. It plays a key role to compater efficiently. Add more de	a to control
Control bus is use all the Communicat among the parts. It plays a Key role to Compater efficiently. Add more de Aus (C)	a to control computer work
Control bus is use all the Communicat among the parts. It plays a Key role to Compater efficiently. Add more de Ans (C)  Input Devices:	a to control computer work tails
Control bus is use all the Communicat among the parts. It plays a key role to compater efficiently. Add more de Ans (C)  Input Devices:  These devices takes input from uses or environment and cend it	a to control computer work
Control bus is use all the Communicat among the parts. It plays a key role to compater efficiently. Add more de Ans (C)  Input Devices:  These devices takes input from uses or environment and cend it	a to control computer work tails  Anput Device
Control bus is use all the Communicat among the parts. It plays a key role to computer efficiently. Add more de Aus (C)  Input Deucces:  These devices takes input from uses or environment and send it to the CPU. Examples of input devices are keyboard, sensors etc.	a to control computer work tails
Control bus:  Communicat among the parts. It plays a Key role to Compater efficiently. Add more de Ans (C.)  Input Devoces:  These devices takes input from user or environment and send it to the CPU: Examples of input devices are Keyboard, sensors etc.  CPU:	a to control computes work tails  ANPut Device
Control bus:  Control bus is use all the Communicat among the parts. It plays a Key role to compater efficiently. Add more de Aus (C)  Input Devices:  These devices takes input from uses or environment and send it to the CPU: Examples of input devices are Keyboard, sensors etc.	a to control computes work tails  ANPut Device

functions which are required and convert o output device Output devices: the user such as Various types of Computers.
Super Computers: Super Compute are the fastest computers. They are very expensive and used in big organizations. Mainframe Computers: Mainframe Computers used in computers Micro Computers: Micro Computer are used in small organizations. They are very fast as compared to mini computers Mini Computers: Mini Computers are used where fast processing is required at individual or small organization level Personal Computers: They are used for personal use such as gaming jeducation lete embedded computers: It is a type machines in which a chip is integrate with machines. This chip has installed programs So machine works according to that program.

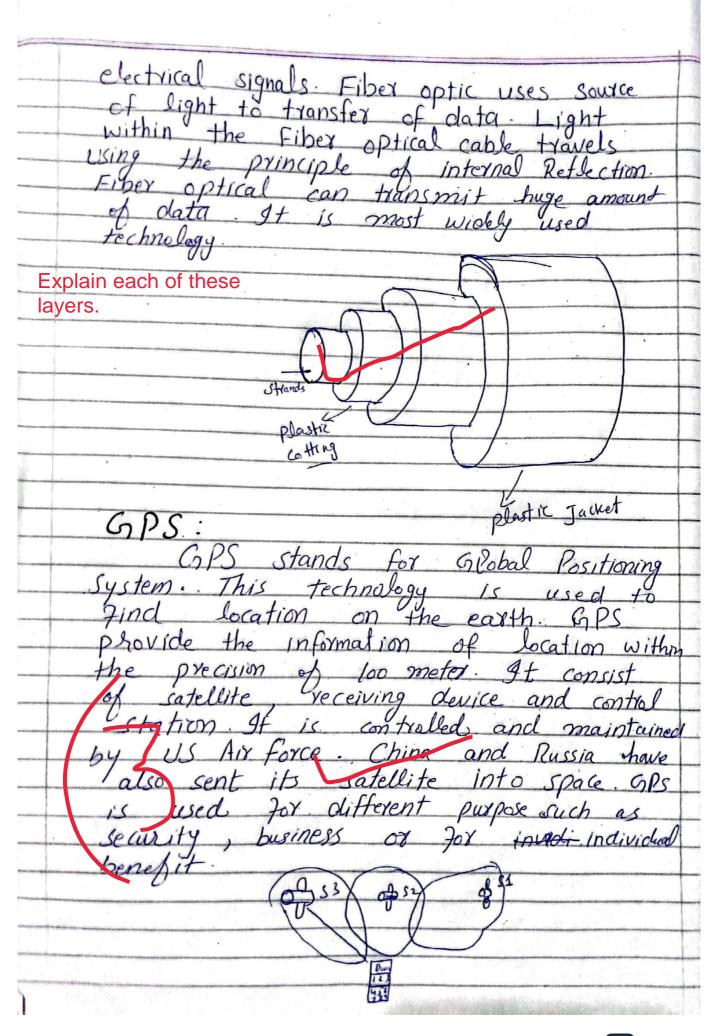
(13 White a note on Hard Disk and How data is stored on Hard Disk. Hard Disk: Hard Disk is a storage device which is used to store data permanently. Hard Disk is made of such as sectors, yead-write head etc. is Jaster than CD gand USB Hard Disk consist of different parts as plates, sectors, Read-posite heads. When we son write data in it is first stored on RAM inpoyarily when we save that date stored on herrol disk when read-write head writes on platter which are divided into Data is written on form of 0 and 1. So po data is written on hard disk when read-write head moves. In this way data is stored on Har hard elisk. Short answer. what are the different types of computers? Explain each beriefly. Networks WAN There are several types of networks, mainly networks are LAN, MAN, WAN, PAN. LAN: LAN stands for Local Area Network It is a type of network in which computer

The state of the s	connect with each other within the
	premises of a building, school collice
	elc. LAN can connects computer within
and the same of th	a small area. It is secure petwork
	Data transmission is very fast in LAN.
	MAN:
	MAN Stands for Metropolitan Area -
	Network. It is used to connect computer -
	within cities. It is mostly used to connect-
•	delfox computers placed in different cities.
	such as Banks, compuses of schools
	, collèges or Offices etc.
-	WAN: 9+ stands for Wide Azea -
	Network. Anyone can communicate with
	other device connecting to WAN, anywhere -
	In the world Data transfer speed is very -
	low.
	PAM:
	PAN stands for Private Ayea Network.
	PAN is a personal network by which -
	people cano transfer or received data such
	as bluetooth.
G4	What is OSI & describe its layers.
/	OSI:
	OSI stands for Open System
	Intex connection. It is a reference
	model which is used to understand.
	how the computer system works.
	It is divided into Seven layers.
	Each layer performs specific tasks
	and Junction
	Layers of OSI:
	Seven layers of OSI model are as
	Follows:
Marie Company or Callege Address or Company	
	· · · · · · · · · · · · · · · · · · ·



	Physical Layer @ Data link layer  Network layer @ Transport layer  Session layer @ Presentation Layer  Physication layer.
-	3 Network layer (4) Transport layer
	5 Session level @ Presentation Javex
-	D Application loud.
	Jaga:
-	2 Application Application
	1
-	6 Presentation Presentation
	1
	5 Session Session
	1 863/6/1
-	4 Transport Transport
	4 Transport
-	3 Network Network
	<b>1</b>
ayeys	level DataLink DataLink
	1
	1 Physical Physical
	when we Receive
-	data we kendire when we send
-	data When we date date
	OCT AL ID
-	OSI Model.
-	
1	Physical layer: It is first lever
	of OSI model. It converts data into
	0,1 frm and then transmit it
	onto physical medium.
-	Data link layer: This layer receives
2	
2	data True Maturale Brief
2	data From Network dayer, arranged
2	into special gormat & transmit it
2	into special Josmat & Hansmit it
3	into special Josmat & Hansmit it  to physical liger.  Network layer:
3	into special Josmat & Hansmit it

	answer.
	information such as IP protocols and transfer it to Data link layer.
	transfer it to Data link layer.
4	Transport layer:
\	This layer receives data from
4	session layer and ensures that data is in
**	correct John. Error correction & petection
-	is done on in this layer.
-5	
	Session layer y ceives data
	From presentation layer and ensures that
	data is transmitted sylchronously.
6	Presentation layer:
	This layer receives data
	From Application layer & arrange it
	into special Format & send it to
	sext - I session layer.
	Application layer:
	This Ager is the
	layer which is visible to used This
	layer arranges data so that user can
	see and understand the data.
Q	Write a short notes on
=	1) Fiber Optics (1) GPS
Ans	Λ
45	Fiber Optics: Fiber optics is a field
	of science in which we study how
	light carries signals and data from
	of science in which we study how light carries signals and data from one place to anoter. For this purpose
	we fiber optic cable to transmit
	data. Fiber optic cable consist of
	thin strande made of allass and
	plastic which are covered by a plastic
	thin strands made of glass and plastic which are covered by a plastic or glass which protect it from
	of good light we estavlavour of
	escapping of light or interference of



Receiving device callect information from more than 2 satellites and then determine its precise location. Q2 Haw an optical fiber Fiber is constructed? How is it weeful in transmitting the electro magnetic orediations. Optical Fiber consist of four parts

Core, cladding, buffer and facket:

Core is the main part through which

light passes R and data is transmitted

in the form of light: Core consist of

strands which are made of plastic or

glass. It is covered by cladding which is made up of plastic or glass. cladding is also covered by a plastic buffer which protect it From electromag-metre radiation. Buffer is also covered of plastic Jacket which protect Fiber Core cludding Buffer How Fiber Optic is useful: the electromagnetic radiation because it will

be affected by electromagentic interference.
Fiber optics transmit data with less also protect data from external intexterence and breaching the security of data. Where & How the optical Fiber is used, also write its advantages & disadvantages Optical Where and How Optical Fiber used. Optical Fiber is used for different purposes and used in different organization. For example, optical Fiber can be used by organizations and countries to transfer sensitive and huge bulk of data. huge bulk of data. Optical Fiber can also such as Television, telecome and other like industries. It can also be used in medical Fredd, For example in medical Freld, doctors use optical fiber to visualize the innex structure of human without any surgery. Advantages of Optical Fiber: 1 Telecome industries use fiber optics to transfer huge amount of data. 2 Fiber optics provide greater bandwidth. 3 Fiber optics cabbe transmit data with the speed of light

4 Fiber oftics prevent the loss of
data and signals. 5 Fiber office make it sure that data is Disadvantages of Optical Fiber. 1 It is very costly to install optical Fiber because it requires expert and

