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MODEL ANSWER

SUMMER - 2017 EXAMINATION

Subject: Computer Hardware & Networking

Subject Code: 17533

Important Instructions to examiners:

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more Importance (Not applicable for subject English and Communication Skills).
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.

Q.No	Sub	Answer	Marking
	Q.N		Scheme
1	-)	A444 THEE -641 - 6-11	12
1.	a)	Attempt any THREE of the following:	12
	(i)	Draw neat block diagram of flat bed scanner and explain its	4M
		working.	
	Ans	Working of flat bed scanner:	
		A flat bed scanner uses a light source, a lens, a charge coupled	
		device(CCD) array and one or more ADCs to collect the optical	
		information about the object to be scanned and transforms it to a	2M for
		computer image file.	working
		• A CCD is a miniature photometer that measures incident light and	flat bed
		converts that measured value to an analog voltage.	scanner
		1	scanner
		• A CCD element is all in one row with one element for each pixel	
		in a line.	
		• The following steps are involved in scanning a document:	
		o A light source illuminates a piece of paper placed face down	
		against a glass window above the scanning mechanism.	
		O A stepper motor moves the scan head beneath the page. As it	
		moves, the scan head captures light reflected from individual	
		areas of the page.	
		areas of the page.	



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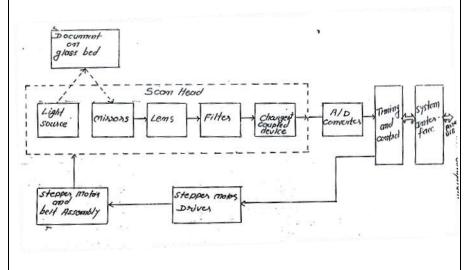
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Network Size

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- The light from the page is reflected through a system of mirrors. A lens focuses the beams of light onto light-sensitive diodes that translate the mount of light into electrical current.
 The more light that's reflected, the greater the voltage. White spaces reflect more light than black or colored letters or images.
 An ADC converts each analog reading of voltage as digital pixel representing, black or white.
- o ADC on monochrome scanner stores only 1 bit per pixel, either on or off.
- o If the scanner is color scanner then the scan head makes three passes under the images and light on each pass is directed through a red, green or blue filter before it strikes the original image.
- o The digital information is sent to software in the PC, where the data is stored in a format with which graphics program.



2M for block diagram

(ii)	Compare LAN, WAN and MAN.							
Ans	Parameters	LAN	MAN	WAN				
	Cost	Low	High	Higher				
	Physical Area	One building	Within city	World wide				
	Installation Cost	Less	Medium	Large				
	Bandwidth	High	Medium	Low				
	Error correction	Easy	Difficult	Very difficult				

Large

Small

4M

Any four points 1M each

Largest



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	Speed	Fastest	Slower	Slowest	
	Transmission	Twisted pair	Twisted pair an	Fiber-optic, radi	
	media		fiber-optic cable	wave and	
				satellite	
	No of computers		Large	Largest	
	Protocol used	Ethernet, Token	ATM, FDDI,	Leased lines,	
		Ring, FDDI		serial links, ISDN, X.25	
	Advantage	Speed	Speed and distance	Distance	
	Common uses	File sharing	File sharing andfile transfer	Email and file transfer	
(iii)	Describe data en	capulation.			4M
Ans	The Application				
	user interacts wit				
	Presentation layer			•	
	add some extra in				D
	user and then pa		Description		
	broken into small TCP header is ac	2M			
	is called a segmen				
	Each segment is together on the re is then handed to addressing) and Network layer, w transport header a				
	The Network layer add its IP header and then sends it off to the Data link layer. Here we call the data (which includes the Network layer header, Transport layer header and upper layer information) a frame. The Data link layer is responsible for taking packets from the Network layer and placing them on the network medium (cable). The Data link layer encapsulates each packet in a frame which contains the hardware address (MAC) of the source and destination computer (host) and the LLC information which identifies to which protocol in the prevoius layer (Network layer) the packet should be passed when it arrives to its destination. Also,				



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	IP Header Data FCS Data-Link Frame MAC Header Data FCS O101110101001000010 Network Packet Physical Bits	Diagram 2M
	at the end, you will notice the FCS field which is the Frame Check Sequence. This is used for error checking and is also added at the end by the Datalink layer. If the destination computer is on a remote network, then the frame is sent to the router or gateway to be routed to the destination. To put this frame on the network, it must be put into a digital signal. Since a frame is really a logical group of 1's and 0's, the Physical layer is responsible for encapsulating these digits into a digital signal which is read by devices on the same local network. There are also a few 1's and 0's put at the beginning of the frame, only so the receiving end can synchronize with the digital signal it will be receiving.	
(iv) Ans	Define cache memory. Explain different level of cache memory. Definition of cache memory: A cache memory is a fast local memory used as a buffer for a more	4M Definition IM
	distant, larger and slower memory in order to improve the average memory access speed.	11/1



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		Levels of Cache: Cache built into the CPU itself is referred as Level1 or L1 or Internal Cache. Cache that resides on a separate chip next to the CPU is called Level2 or L2 or External Cache. L1 is faster than L2 or any other external cache, running at the speed of the processor. External cache is a separate high speed memory in between processor and main memory. The cache controller always tries to make sure that the data required by the processor in the next memory access is available to	Levels of cache 2M
1.	b) (i)	the CPU without any wait state. Attempt any ONE of the following: What is preventive maintenance? Give its importance. Explain different type of preventive maintenance.	6 6M
	Ans .	 Preventive maintenance: Preventive maintenance or periodic maintenance is must for obtaining long years of trouble free service from the PC. It can reduce problem behavior, data loss and component failure and ensures long life for the system. 	Preventive maintenanc e 2M
		 Importance of preventive maintenance: It can also increase your system's resale value as the system looks and runs better. 	Importance 1M



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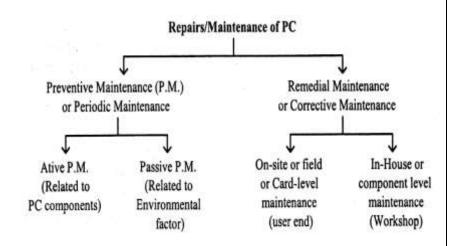
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Types of preventive maintenanc e 1^{1/2}M each

Type of preventive maintenance:

1) Passive preventive maintenance

It includes periodic care of external factor which affect working of the PC i.e. Mainly providing the best possible physical and electrical environment for the PC to operate. Physical environment concerns with conditions:

- 1. Ambient Temperature.
- 2. Thermal Stress for power cycling.
- 3. Dust and smoke contamination.
- 4. Disturbances such as shocks and vibrations.

2) Active preventive maintenance

- It describes several procedures to clean and lubricate all the major components, cleaning all boards, connectors, contacts etc.
- It also describes similar procedures for different peripheral devices such as HDD, FDD, keyboard, printer, monitor etc.
- It includes performing backups, antivirus and antispyware scans.



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Ans	Draw RS-232 signal interface and explain the signals.	6M
	RS - 232 Interface SE CO Frame (chassis) Ground	
	3 1	Diagram 3M
	RS232 interface signal connections between computer and terminal device	
	 TxD (Transmit Data): It is used by the computer to send data to a device connected to the serial port OR Data sent from DTE to DCE. DTR (Data Terminal Ready): It is send from computer to the 	
	device connected to the serial port to inform that computer is ready for communication.	
	 ready for communication. GND (Signal ground): This is one of the most important signal. This wire provides the necessary return path for both the data signals and the handshaking signals. 	
	ready for communication. • GND (Signal ground): This is one of the most important signal. This wire provides the necessary return path for both the data	
	 ready for communication. GND (Signal ground): This is one of the most important signal. This wire provides the necessary return path for both the data signals and the handshaking signals. DSR (Data Set Ready): It is send from the device connected to the serial port to the computer to inform that the device is ready 	



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		• Rl ser vo co so			
2.			npt any <u>FOUR</u> of the following	_	16
	a) Ans	Sr.	OSI Model	P reference model. (4 points). TCP Model	4M
		No	OSI Model	Tel Woder	
		1	It has 7 layers	Has 4 layers	
		2	Transport layer guarantees	Transport layer does not	
			delivery of packets	guarantees	
				delivery of packets	Any four
		3	Horizontal approach	Vertical approach	points 1M
		4	Separate presentation layer	No presentation layer,	each
				characteristics are provided	
		5	Separate session layer	by application layer No session layer,	
			Separate session rayer	characteristics a	
				re provided by transport layer	
		6	Network layer provides	Network layer provides only	
			both connectionless and	connection less services	
			connection oriented services		
		7	It defines the services,	It does not clearly	
			interfaces and protocols	distinguishes	
			very clearly and makes a	between service interface and	
			clear distinction between	protocols	
		0	them	This was a section will be a she	
		8	The protocol are better hidden and can be easily	It is not easy to replace the protocols	
			replaced as the technology	protocors	
			changes		
		9	OSI truly is a general model	TCP/IP cannot be used for	
			J J B	any other application	
		10	It has a problem of protocol	The model does not fit any	
			filtering into a model	protocol stack.	



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b)	List advantages of LCD monitor over CRT monitor.	4M
Ans	Advantages of LCD monitor over CRT monitor:	
	 CRT monitor requires about 100W for 19" display whereas LCD monitors requires 45W for the same. LCD monitors are lighter and thinner than CRT. They can be mounted on the wall. LCD monitors has smaller footprint on desk, freeing up work area on the user's desk. More usable display area than comparably sized CRTs. Easy adjustment, storage and movement 	Any four advantages 1M each
c)	• Less eye strain. Define:	4M
Ans	 (i) Blackout (ii) Brownout (iii) Surge (iv) Spikes (i) Blackout: It is the complete loss of electrical power where 	
·	voltage and current drop to a very low value (typically zero). They are caused due to physical interruption in the local network.	1M for each definition
	Surge (overvoltage) Spike Normal voltage Sag (undervoltage) Blackout	
	 (ii) Brownout: It is the under voltage condition caused by faulty electrical wiring or excessive electrical load on an AC circuit. (iii) Surge: They are small over voltage conditions that take place over relatively long periods of few milliseconds. (iv) Spikes: It is a large over voltage condition that occurs over short duration of few microseconds. 	



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d)	Write fault finding and troubleshooting procedure of	4M
	peripherals of PC.	
	(Note: any other peripherals may be also considered)	
Ans	Printer: Printer not printing at all	
	Check and make sure all connections going to and coming	
	from the printer are firmly in place.	
	• Check that the printer is on-line	A 4
	• Print a test page. If that prints and the application you are using	Any two
	doesn't, contact the application's vendor for support.	peripherals 2M each
	• Turn off the printer for 10 seconds and turn it back on. Make a	2W each
	note of any error messages or flashing lights when the printer	
	is turned back on.	
	Reboot the computer. This generally solves most printing	
	problems.	
	If the printer is connected directly to another computer, try medicating that computer. The printer is connected directly to another computer. The printer is connected directly to another computer.	
	rebooting that computer.	
	Try to uninstall and then re-install the network printer.	
	Keyboard: Keyboard not working	
	Check if the keyboard is properly connected to the port	
	Check for any error by restarting the computer	
	Check whether the Num Lock and Caps Lock keys are	
	functioning properly while the operating system is booting up	
	• Check for the presence of a fuse in the +5V DC supply and	
	check it for continuity.	
	• Neither the older five-pin DIN nor the six-pin PS/2 mini-DIN	
	keyboards can be hot-swapped. Disconnecting or plugging in a	
	keyboard that has this type of fuse while power is ON can	
	cause the keyboard to fail. If the fuse is present, simply replace	
	it with a fuse of the same type and rating.	
	If still not working, replace with a new keyboard.	
	Mouse: No mouse pointer on the screen	
	• To plug in a PS2 mouse, the computer must be turned off.	
	• Computers will not recognize a PS2 mouse if the computer is	
	already turned on. For a USB or wireless mouse plug it in with	
	the computer turned on.	
	If it is an optical mouse:	



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- 1. If the computer is turned on, turn over the mouse and verify its light is on. If the light is not on and it's a USB mouse:
 - a. unplug it and plug it back into the same USB port. If that doesn't work then
 - b. unplug it and plug into another USB port on the same computer. If that doesn't work then
 - c. Swap the mouse with a USB mouse on another computer. If the mouse doesn't work on the other computer then the mouse is defective and needs to be replaced. If no mouse works on the computer, then there is a problem with the computer
- 2. If the mouse light is on but the pointer doesn't move (or the buttons don't work) then try putting a clean mouse pad under the mouse. If that doesn't work then follow the same steps above as if the mouse light isn't on.
- 3. If it appears that no USB mouse will work in the computer, shutdown the computer and plug in a PS2 type mouse (has the round connector). Be sure to plug the PS2 mouse into the PS2 mouse port on the back of the computer.

Monitor: Monitor is blank after starting computer.

- 1. Check to be sure that the Monitor has power and that the light is on.
- 2. Check your cables connecting your monitor with your computer.
- 3. Make sure all connections are firm and properly in place before retrying to start computer.
- 4. Disconnect all devices except for the mouse, keyboard and monitor. Reboot computer to see if the issue is resolved.
- 5. Try connecting the monitor to a different PC using the problem monitor's video cable. If it still doesn't work, try the known good monitors video cable.
- 6. Try unplugging the monitors power cable, then wait about 20 or 30 seconds and plug it back in.
- 7. Try installing a separate graphics card in PCI express slot.
- 8. If none of the above troubleshooting steps does not solve the issue, then it is likely that the monitor is bad and will need to be replaced.



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e)	State the meaning and functions of ARP and FTP.	4M
Ans .	ARP: Meaning: Address resolution protocol used to convert IP address into corresponding physical or MAC address.	ARP Meaning – 1M
	 Functions: ARP takes the IP address of a host as input & gives its corresponding physical address as the output. 	
	 It sends the broadcast message to allthe computers on the networkfor the given IP address. The computer whose IP address matches the broadcast IP address sends a reply and along with its physical address to the broadcasting computer. All other computers ignore the broadcast message as IP address is different 	Functions Any two ½ M each
	As it knows sender hardware as well as IP address, it uncast the reply so that only sender receives it.	
	FTP: Meaning: File Transfer Protocol used to transfer files over internet.	FTP Meaning – 1M
	 Functions: FTP is a stranded mechanism provided by the Internet for copying a file from one host to the other. FTP establishes two connections between the client and server. One is for data transfer and the other is for the control information. 	Functions Any two ½ M each
	 The fact that FTP separates control and data makes it very efficient. The control connection uses simple rules of communication. Only one line of command or a line of response is transferred 	
	 at a time. But the data connection uses more complex rules due to the variety of data types being transferred. FTP uses port 21 for the control connection and port 20 for the data connection. 	



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	f) Ans	Comp	are peer-to-peer N/W and cl	ient – server N/W.	4M
		Sr. No.	Peer- to- Peer N/W	Client - Server N/W	
		1	A peer-to-peer (P2P) network is a type of decentralized and distributed network architecture in which individual nodes in the network are called peers.	A client Server network is a centralized network in which one computer is considered as Server and other computers are connected as clients.	Any four comparison s IM each
		2	In Peer-to peer network each computer is responsible for making its own resources available to other computers on the network.	In client Server network, server is responsible for making the resources available to clients.	
		3	Peer to peer network is useful for a small network containing less than 8-10 computers on a single LAN.	Client server network is useful when a large number of computers are to be connected and administered.	
		4	In a peer to peer network, a group of computers is connected together so that user can share resources and information.	In this a group of computers are connected to a server computer, which assigns rights and permissions to computers.	
		5	In peer to peer network, each computer maintains its own accounts and their security settings.	In client server network, administration is through centralized server.	
		6	Individual backups to be taken for peers	Centralized and easy backup using server	
		7	Any operating system (OS) supporting individual PC can be installed in peers.	Very reliable, dedicated network Operating System to be installed as a server.	
3.	a)	Comp	pt any <u>FOUR</u> of the following are TCP and UDP with responded		16 4M



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٠	Parameter	TCP (Transmission Control Protocol)	UDP (User Datagram	
	Speed	TCP has error	Protocol) UDP is faster than	
	Speed	checking and	TCP as it does not	Each
		handshaking signals,	have error	compariso
		which makes it	checking and hand	1M
		slower.	shaking signals.	
	Reliability	There is absolute	There is no	
		guarantee that the	guarantee that the	
		data transferred	messages or	
		remains intact and	packets sent would	
		arrives in the same	reach at all,hence	
		order in which it was	less reliable.	
		sent. Thus reliability		
	A 7 7 7 7 7	is more.	NT 1 11 1 1	
	Acknowledgement	Handshaking is done	No handshake and	
		(SYN, SYN-ACK,	no admayyladaamant	
	Convity	ACK signals) Since TCP has	acknowledgement No	-
	Security	acknowledgement	Acknowledgement	
		signal, it can be	and hence less	
		considered as more	secure.	
		secure compared to	secure.	
		UDP		
b) Ans	With the help of diag	gram. Explain working	of UPS.	4M
•				



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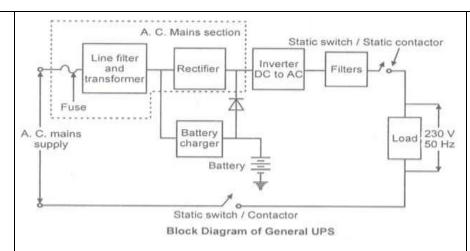


Diagram of UPS 2M

Uninterrupted Power Supply: The UPS delivers uninterrupted power to the ac load and it consists of following functional blocks namely, AC mains section with filter, transformer and rectifier, Battery charger with circuit and battery, Static switch / contactor.

AC mains section

It receives ac supply, filters it with the help of line filters and rectifies it to the desired level of the load. This section can withstand ac input fluctuations from 170V to 250V. Thus despite of ac fluctuations UPS can deliver 230V 50Hz output to the load. When ac supply is available it charges the battery through the battery charger circuit.

Working of UPS 2M

Battery charger with circuit and battery

It converts the ac supply to the desired dc levels and charges the battery. It has special protection to prevent overcharging of batteries. The battery charger is SCR controlled converter that charges the battery with constant current supply. The Battery specifications decide the time and amount of power delivered to the load. The batteries are usually specified using AH (Ampere Hour) as the unit.

Static Switch / contactor

In the event of power failure the inverter is connected to the load



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with the help of switch. The inverter changes from the battery to ac of constant frequency and amplitude. It also has synchronization circuits for smooth change-over from mains to inverter ac avoid waveform distortion.

c) Draw the construction of opto-mechanical mouse and explain its working.

Ans | Diagram of opto-mechanical:

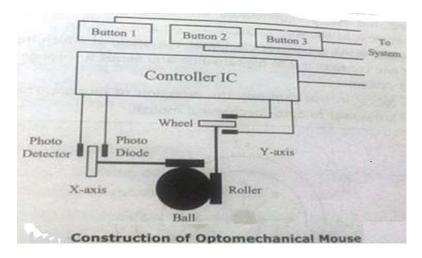


Diagram of optomechanical 2M

4M

Opto-mechanical mouse: The basic construction is similar to that of the mechanical mouse. The only difference is that the combination of LED & photo detector is used to sense the distance traveled by the mouse.

Explanatio n 2M

Working: When the mouse is moved, the ball at the bottom also moves. It turns to separate roller fixed at 900 producing vertical and horizontal movement of the cursor on the screen. The encoder (wheel) connected to each roller are rotated by corresponding movements of the rollers. There are small openings on each wheel, when the wheel rotates a pair of LED & photo detector detects them. Each opening in the wheel will allow light from LED to pass through it and generate an electrical signal. The number of signals generated is directly proportional to the distance of the cursor. These signals are passed to the Pc through the wire connecting the mouse to the main system. The PC passes it to the driver software, which converts it into distance, direction and speed.



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Subject. Co.	inputer Hardware & Networking Subject Code.		
d) Ans	What is network topology? Explain star and Ring topology with its advantage (any 2)	4M	
Alls	Network topology: The topology of a network is the geometric representation of the relationship of all the computers or links with linking devices (usually called nodes) to one another. Star Topology: In this topology, nodes are connected to central cable; here all	Definition 1M	
	 the hosts or workstations are connected to central device called hub. All the data on the star topology passes through the central device before reaching the intended destination. 	Star topology IM	
	HUB		
	 Advantages: A single computer failure does not affect the entire network. Easy to expand – Adding new node in Network is easy. Centralized control-It enhance N/w monitoring & management. Fault detection is easy because all nodes are connected to central HUB 	Any 2 advantages of star topology ½ M Ring topology	
	 Ring Topology: A network topology that is setup in circular fashion. In other words all nodes in ring topology are connected in ring structure. In ring topology, each computer is connected to the next computer where the last computer is connected to the first. 	topology 1M	



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Ring Topology

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Advantages:

- This type of network topology is very organized.
- Each node gets to send the data when it receives an empty token. This helps to reduces chances of collision.
- Also in ring topology all the traffic flows in only one direction at very high speed. Even when the load on the network increases, its performance is better than that of Bus topology.
- There is no need for network server to control the connectivity between workstations.
- Each computer has equal access to resources.

Any 2 advantages of ring topology ½ M

4M

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e) Ans

Explain working of CD-ROM drive.

Working of CD-ROM drive:

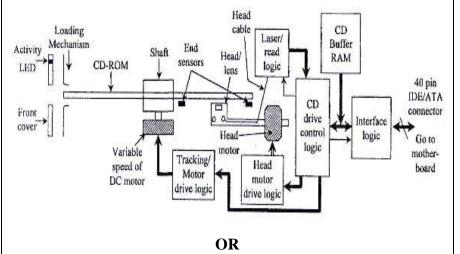


Diagram of CD-ROM drive 2M



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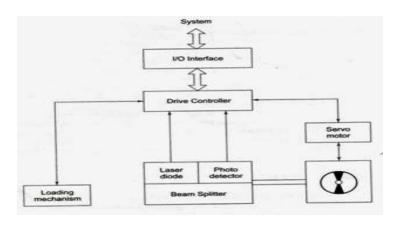
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Working of CD ROM drive:

A CD drive consists of

- 1. Optical head which contains laser diode, photo detector and beam splitter
- 2. Drive controller
- 3. Loading mechanism
- 4. Servo motor
- 5. I/O interface
- 1. The optical head contains:
 - Laser diode, which generates the laser beam
 - A lens system to focus the laser beam on the disc and to direct the reflected beam on to the photo detector. The beam splitter sends the reflected beam towards a different lens for focusing.
 - Servo motors that control the position of laser and lenses to ensure correct tracking and focusing.
 - Photo detector that detects the reflected light and converts it into electric pulses.
- 2. Drive controller is the overall controller of the CD drive. It controls the speed of rotation and processes the signals coming from the optical head.
- 3. The information coming from the photo detector is in the encoded from (8 to 14 Modulation) (EFM). The decoding of data is done by the microprocessor on the controller.
- 4. The decoded data is sent to the I/O interface, which makes it available to the system.

Explanatio n 2M



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f)	List important features of routers used in Computer Network.	4M
Ans	Router features:	
•	 Router is a device or a specialized computer that connects two or more networks. It consists of a combination of hardware and software. Router operates at the Network Layer. The primary function of a router is to connect networks together & keep layer-2 broadcast traffic under control. A router is typical connected to at least two networks commonly two LAN or WAN or LAN and its ISPs or more n/w connects. 	Any four features 1M each
	Routers are located at gateways, the places where two or more networks connect.	
	Routers maintain a routing table which can be configured either manually or dynamically using static or dynamic routers.	