	and explain the companent
(2)	what is computer and explain the component
	of computer 9
\rightarrow	A computer is an electronic machine that
	can solve different problems, process data,
	stores and retrive class and perform
,	calculations faster and efficiency than humans
	1 - C computers -
*	The following components of computers -
	The basic component of aighter computer
	are Input Device, output Device, central
	Processor unit (CPU), mass storage device
	and memory.
	The output dévice of computers such as
	monitor, printer, speaker etc.
*	Five basic component of computer system -
	- Input unit
	- Output unit
	- storage unit
	- central processing unit (CPU)
	- Arithemetic and Logic unit (ALU)
	- control unit
	Input -
	Input is the raw information entered
	into a computer from the input devices.
	into a computer from the input devices. It is the collection of letters, numbers
	images etc.
	output -
	by computer after data processing.
	by computer after data processing.
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Page No.:
STORAGE UNIT.
It contain primary storage and second-
any storage. It stores the information.
1 montage on
central processing unit -
- It contain the indication flow of instru-
ction and data.
the state of the s
Arithematic and Logic unit -
- It indicates the control exercised by the
control unit.
e character and a second
control unit -
It is the component of computer centro
processing unit that direct the operation
of the processor.
Define computer, types of computer of
characteritic of computer ?
A computer is an electronic machine that
can solve different problems
can solve different problems, process data stores and retrieve data and perform
calculations faster and efficiently than human
TWINGS TESTS WITH ETTICENTLY FLAIN NUMA
The following types of computers -:
TOTOLITIES TO THE CONTRACTOR OF THE CONTRACTOR O

			Page No.:
		tipes of computer -	Date:_/_/
		The following types of computer -	Page No.: Date:/_/
	0	A a a lad Complait	
-	(2)	Digital computer	
	(3)	Hybrid computer -	
		Analog computer -	6
11		An Analog computer is a form or	computer
		that uses continious physical phenor	nena
		that uses continious physical phenor such as electrical, machanical or	hydrawic
		quantities to model the problem	being
***		Solvec.	
		Digital computer -	
		A computer that refers to perfo	orm the
		calculation of logical operation with	quantition
		represented as digit, usually in the	2
		binary number system.	
*		The following characteristic of compu	tono -
) 5	speed	
2) A	Accuracy	
3) (Di ligence	
4)	1	Versatility	
5)	Pa	Power of Remembering	
6)	1	No IQ	
		No feeling	
8)		Storage	11 "
		- TE	À 1
	S	speed -	· .
		Λ	
		As you know computer can work	•
\parallel		very tast. It take only fell of	1
+		That we take house	to
	u	omplete.	1,000
See Links			STATE OF THE PARTY

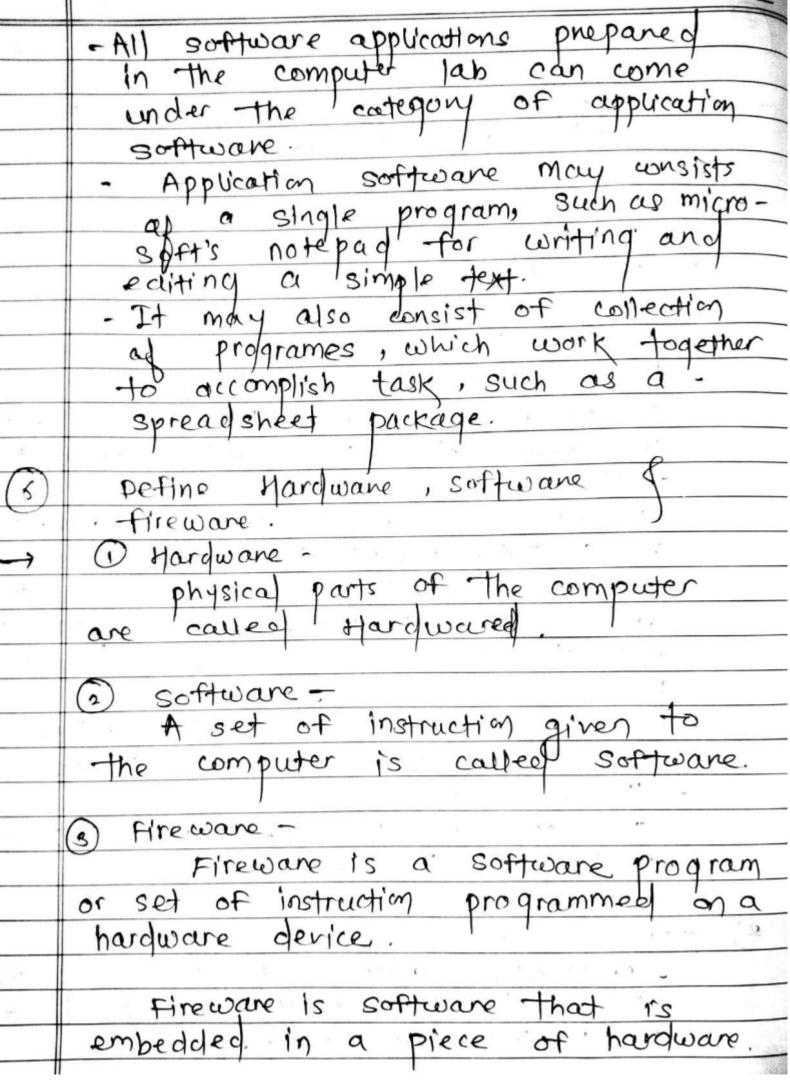
V 25 10	
	Accuracy -
V	The dearee of
1	is very high and every carceration is perform with the same Accordation is
/	perform with the same solution is
/	accuracy level is
Y	perform with the same Accuracy. The basis of design of computer of computer.
Y	niliaence -
3	A computer to
1	A computer is free from tiredness,
1	ack of concentration, faitique etc. It con work for hours without
1	work for hours without creating any
1	
4.	versatility -
-	It mean the capacity to perform
	Completed to the sent to the s
	Computer to morning
	1945011 SUPS. Next Moment was many
· v	into inventory management or to
	electric bills.
G ,	Power of Remembering-
	It stores any amount of data or
	information. Any information can be
	stone and secolled as Ima as you
-	store and recalled as long as you
	require it for any numbers of years.
1	It depends upon the data when to
-	loss o's retrieve these data
	The second secon

		Date:/
		No IQ -
	6.	machine all (a)110T
70-00		in thout without
		C . / the liser.
		mom / me as
	7.	No. Feeling-
		The state of the s
		and limes taste, knowledge kind
	7, 1	- experience. It does not ouslinguish
	14.	bern users.
1 - 7		the in the field of the state o
8		storage -
		The computer has in-built memory
		it can stone large amount of data.
10	13	You can store the data with
135		the help of storage device such
3	14	as floppies etc.
		the same the same the same of
(4)		What is hardware explain the type
	11	d hardware.
		0
		Hardware is the collection of all
10	-1	he parts you can physically device
18	S	the parts you can physically touch such as monitor, keyboard and
	7	mouse etc. Reyboard and
	-	
A .	Th	e following them
N		e following types of hardware -
-/)		PU is responsible for processing most
		Turning indust
	in)	o output

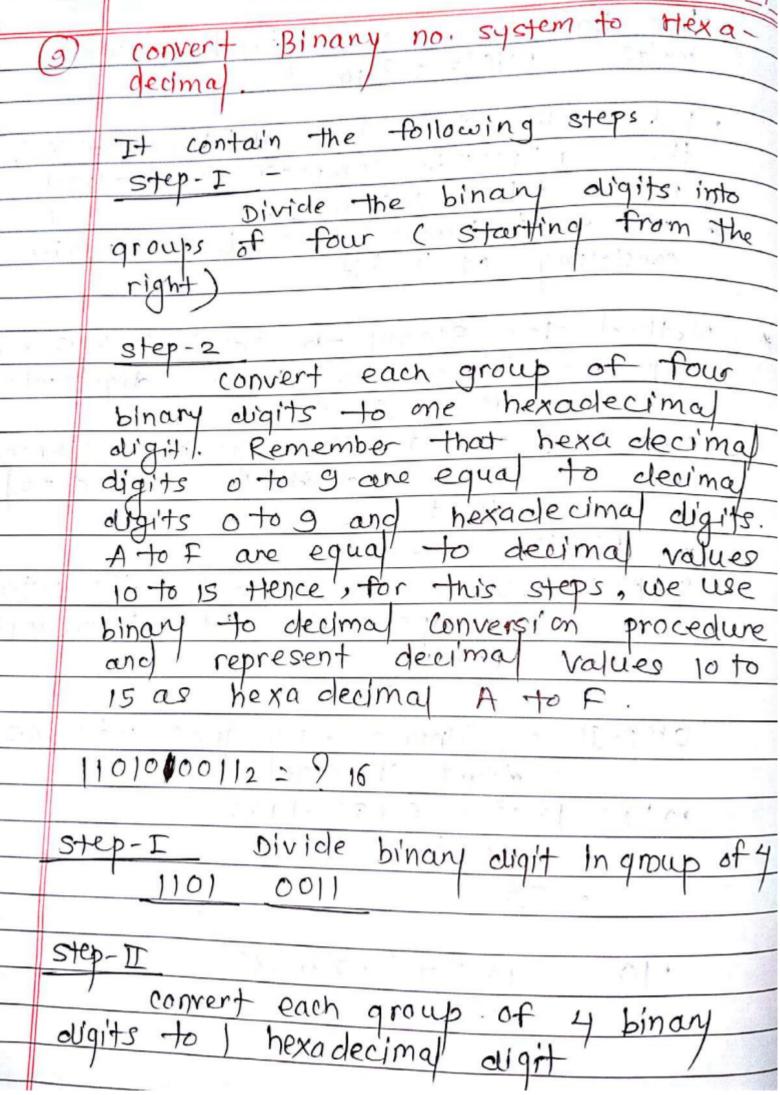
2	memory consists of computer all Date: 1
	hold data. Computer chips that
3	
/	In addition to the software
4	In addition to the components in the
	one of more inner
	one of more input device. The with
5	Each computer has some type of display
1	Most desktop & notal and
6.	most desktop of notebook computer come with an optical chive; which is a
_	drive that
	Will Track CD's
7.	Whatever computer you have, you will
	to the Internet.
$\overline{}$	- Inding.
u .	CPU is responsible - for processing most
7	CPU is responsible for processing most
	of the computer's data, turning input
	into output:
	- A cpu is a very small, thin silicon water that is encased in a ceramic
	water that is lencased in a ceramic
	CNP.
	- cpu speed is measured in gigahertz
	(GH) z
	- The higher this measurement, the
	faster the CPU can operate.
	- A hertz is a cycle per sec: a giga
	- A hertz is a cycle per sec; a giga hertz is I billion cycles per sec. • A fairer comparison bet two diff
_	· A fairer comparison bet two diff
_	cpus is the no. of instruction per
_	sec they can perform.
_	

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	Date:_/_
	Hard drive stores software-
	- when the computer is turned off,
	remains there, so you don't
	10 10000 3011000
	to reload the turns on the
	Computer.
	- Most band daire and
	the traditional mechanical type.
	data with magnetic polarity, but
	a newer type called a solid
2. 1	state hard drive (SSHD)
*	anve (SSHD)
*	Each computer 1
	Each computer has some type of display screen
	display screen -
	- Depending on the type of commun
	cusplay computer
	or may be seperate unit called a
	monitor or with its own power com
	as shown. Its own power cords
	- C
	you can use touchscreen so
	- Some clisplays are touchscreen, so you can use your finger to the
	commute provide indust 1
	comparer. To the
. 11	



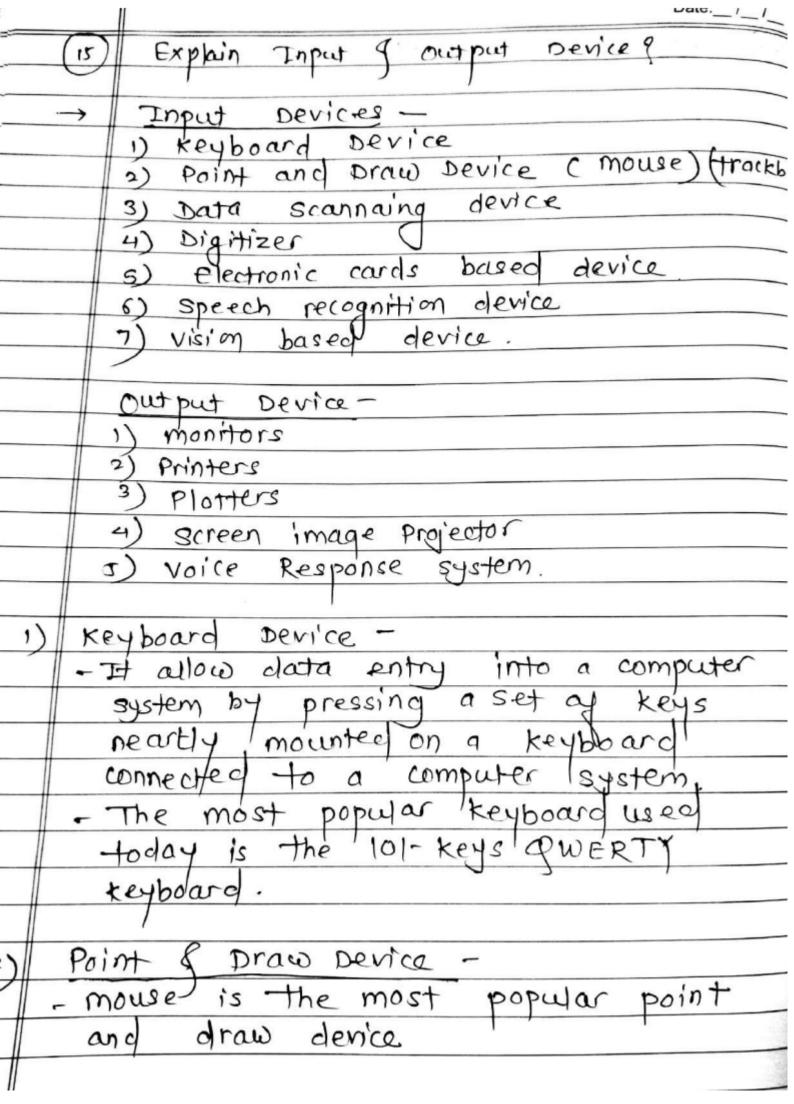
	Page No.:
	the base as a subscriber
	the base as a subscript. Hence we we
//	
//	- Bit is the short form of "1"
//	- Bit is the short form of "binary digit". Hence q "bit" in computer termino 1094
	means either a vor 1.
	- An: n-bit number is a binary number
	consisting of 'n' bits.
	(6/13/3/11
	another of for Pinnal - 1 and Consons
*	Method for Binary to octal conversion.
	step-1 - Divide the binary digit into
	groups of three.
	step-2 - convert each group of three
	binary digit to one octa
	digit.
31	ex 10/1102= 98
	step. I - Divide the binary digits into
,YES	groups of 3 CLSD) strating 71
100	101110
	- strate porterior at a strategy
	step-II - Convert each group into one digit of octal 10/2= 1x22 + 0x2 +1x20
	digit of octa
	10/2= 1X2 + OX2 - 11X2
	= 4+0+1 = 5 ₈ 8
	= 5,8
	1
	$1102 = 1 \times 2^2 + 1 \times 2^4 + 0 \times 2^6$
	= 4 +2 +0
	= 68 10 10 10 10 10 10 10
	Ha. 4. 101110
	Hence 10/1102 = 568



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	Page No.:
	$\frac{110 2 = 1 \times 2^{3} + 1 \times 2^{2} + 0 \times 2^{1} + 1 \times 2^{0}}{5 \times 4 + 0 + 1}$
	= 8+4+0+1 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	$= 13_{16}$ $= D_{16}$
	10
	Hence - 110/00/12 D3
	1-101/2 - 11 100/12 - 3
	$001 2 = 0 \times 2^3 + 0 \times 2^2 + 1 \times 2^1 + 1 \times 2^0$
	= 0+0+2+1
	= 316
	Hence; 110100112= D316
(10)	convert Hexadecima to Binary no. system-
1	6 2011 110101 01 01
	It contain following steps-
	Step. I
	convert decimal equivalent of each
	heradecimal digit to y binary digits
	to the second of
	Step-II-
	combine all resulting binary group
	into a single binary number.
	er . The training to the state of the state
11	EX 2 AB 10 = 92
	Step-I convert the decimal equivalent
	as each hexadecimal oligit to y
	bloan digits.
	210 = 210 = 001022
_	
_	$A_{16} = 10_{10} = 1010_{0}$ $B_{16} = 11_{10} = 1011_{2}$
	16 10 2

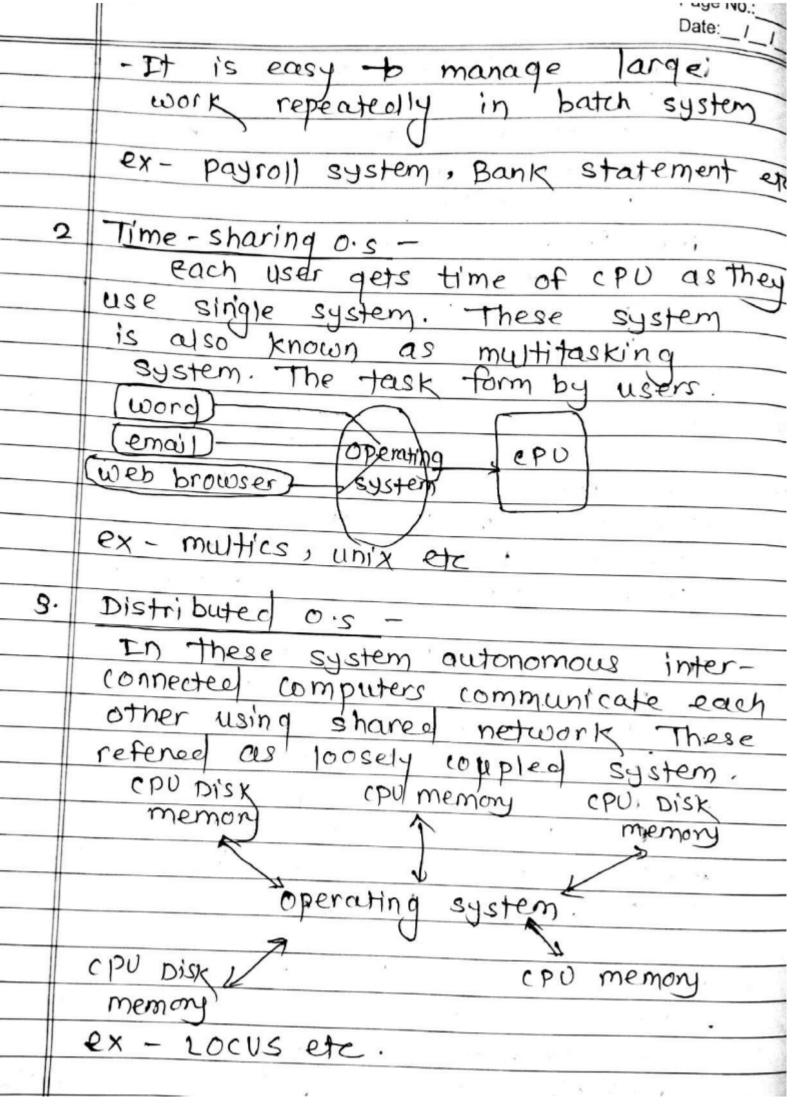
	Date:
	Step-2 combine the binary groups
	$2AB_{16} = 0010 $
	16 2 2 2
	Hence 2AB, = 0010101010112
	2
(2	ABC 16 = 12
	ABC = 1010 1011 100
- tar-	A 13 C
	10101011100
	= 1010101111002
	11
	Hence ABC = 101010111100
	Dictinguish hotoron ACCTT and uniceda
	Distinguish between ASCII and unicode.
0.1	ASCII Unicode.
~	ASCIT is the American It doingall kinds
	standard code for Dn- at data processing
	formation Interchange. The world, their
1	usage could be
1.0	limited to english
	anguage wers only
	Prepared By -Sameer Tadvi
	College Of Agriculture Naigaon (Bz) Dist -Nanded
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	Page No.:
	- IT IS must have in-
	personal computers and worksteetiens
	Decouse that
	primary user their
	- A mouse is a
	that fits comportably in a held device
	- It rolls on a small diser's palm.
	one or more buttons and has
	- Kle can easy to open any icon in the screen.
	screen. I the
	a single to proper to a significant to the same of the
3)	Data scanning Device -
	It allow data entry from source
	documents directly. It having source
	documents directly. It having the following characters
	- They eliminate the need for manual
	entry of data by human beings,
	thus improving data accuracy and
	timeliness of data processed.
	- Automatic entry of data with their
	use improves data accuracy and increase
	timeliness of the data prof information
	processed
	- It contain following device such as
	1) Image Scanner
	-Flatbed Scanner
	- Hand-held scanner
	2) optical character Recognition cock) Device
	3) optical mark Reader come)
	4) Bar- code Reader
	5) Magnetic Ink character Recognition
	CMICR)

*	Objectives of operating system -
- 1)	Convenience
2)	Efficiency
3)	Ability to evolve -
	- convenience makes computer users friendly
	- efficiency allows computer to use resources
	efficiently allows computer to use issue
	विस्तिविद्याम् .
	Function of operating system-
7	
2)	Resource management Process management
3)	memory management
4)	storage management
5)	Device management
6)	Data management
5)	Job management
8)	Standard means of communication bet?
	users & computers
*	Resource management -
	The resource management
	function of an os allowers computer
	resources such as (PO) times, main
	memory, secondary storage and input
	4 output device for use
25	Process management -
	The O's is responsible for the
	-following activities in connection with
II	process management

	Date: /_/
	Such and deleting both users &
	System processes i) creating and deleting both users of Suspending of common in
	iii) Suspending of resumming process iii) Providing mechanisms for process synchronization
	Charles mechanisms for process
	synchronization process
	(v) Providing mechanism for process
	bandling mechanism for deadlock
	handling
_	
(17)	Define o.s and type of o.s with example.
>	An operating system is system software
	The manager (DM) The MANAGER
	software resources and provides
	common service for computer programe
	3017040 710 11017
	The following types of ors
A III	i) Batch operating system
	i) Batch operating system 2) Time-sharing operating system 3) Distributed operating system 4) Network operating system 5) Real-time operating system
3	3) Distributed Operation Question
Da.	4) Network operation (system
	5) Real-time Operation suctem
	8) - Hard real time operating system
	6)-Hard real time operating system 6)-Soft real time system
	1) 3011 read 11me system
4.	Batch operating system -
*	
	- This type of o.s do not interact
	with computer directly.
	- multiple users can share the batch
	system.
	- the idle time batch system is very less.
	Coonned by Com Coonner



Date:__/__/_ Metwork O.s -These system runs on a server and provides the capability to manage data, users, groups, security application and other networking function. These type of o.s contain allow shared access files, printers networking functions etc. went 2 -Client I File server client 3 client -3. ex - microsoft windows server 2003 microsoft windows Server 2008 UNIX Linux Mac O.SX, Novell Netware Real-time ois -5. Real time system used when there are time requirement are very strict-like missile system, air traffic control system robots etc. Two ypes of Realtime o.s such as - Hard Real time system - soft Real time system scientific experiment, industrial control system webon system, medical imaging system etc ex

What is relationship beth ors con Hard ware The following Relationship bet " o.s and Hardware. o's is system software that. manage computer hardware common services for computer programs. The o.s is also responsible for sexurity, ensuring that unauthorize users do not access the system It handles input and output to and from attached hardware device, such as hard disks, printers and dial-up ports It send messages to each application or interactive users about the status of operation and any - Physical part of computer are called hardware - You can touch, see & fee hardware - User cannot make new duplicate copies at hardware - Hardware cannot be transferred from one place to another electronically through network Scanned by CamSca