

	Number System.
	V
	Their are four Types of number System.
r al an d	The second secon
1.	Binavy (,)2
2.	Octal d (,)8
3.	Decimal ()10
4.	Heraelecimal ()16
	`
	Binary 0,1
	σ
	Octal 0, 1, 2, 3, 4, 5, 6, 7
-	
	Decimal 0, 1, 2, 3, 4, 5, 6, 7, 8, 9
-	0/ 1 1 1 9 2 4 5 6 7
-	Heнadecimal. 0, 1, 2, 3, 4, 5, 6, 7
-	8,9,10,C,D,F,F
1	Compart Dinary to Octol.
1	Convert Binary to Octal.
	(101101001)2 (551)8
	Convert Octal 40 Binary.
	(71.3)8 (01110001.001)2

DATE: 1 1201 Convert Binary to Octal. $(10 \cdot 110)_9 \quad (2 \cdot 6)_8$ Convert Binary to He Hadecimal. G 0 0 Que (01100001)2=(61)8 Que. (100010/0.1101)2=(8A.D)16 Que (0101101) = (D)6



Convert Heradecimal to Binguy. Que. (70F)16 = (0111 11011111)2 Que- (22.C)16= (60100010.1100)2 Convaout Octail to Hexadecimal. John- Octail -> Binary -> Heradecima Que (257)8 (0A7)16 Firstaly we'll convert Octail to Binany 0.6010101111)9 Now we'll convert into 6 Hescadecimal (0 A 7) 16 Solved. 76.1/8 2(0111 110.0019) Que. 3 E. 2) 16 Solved.

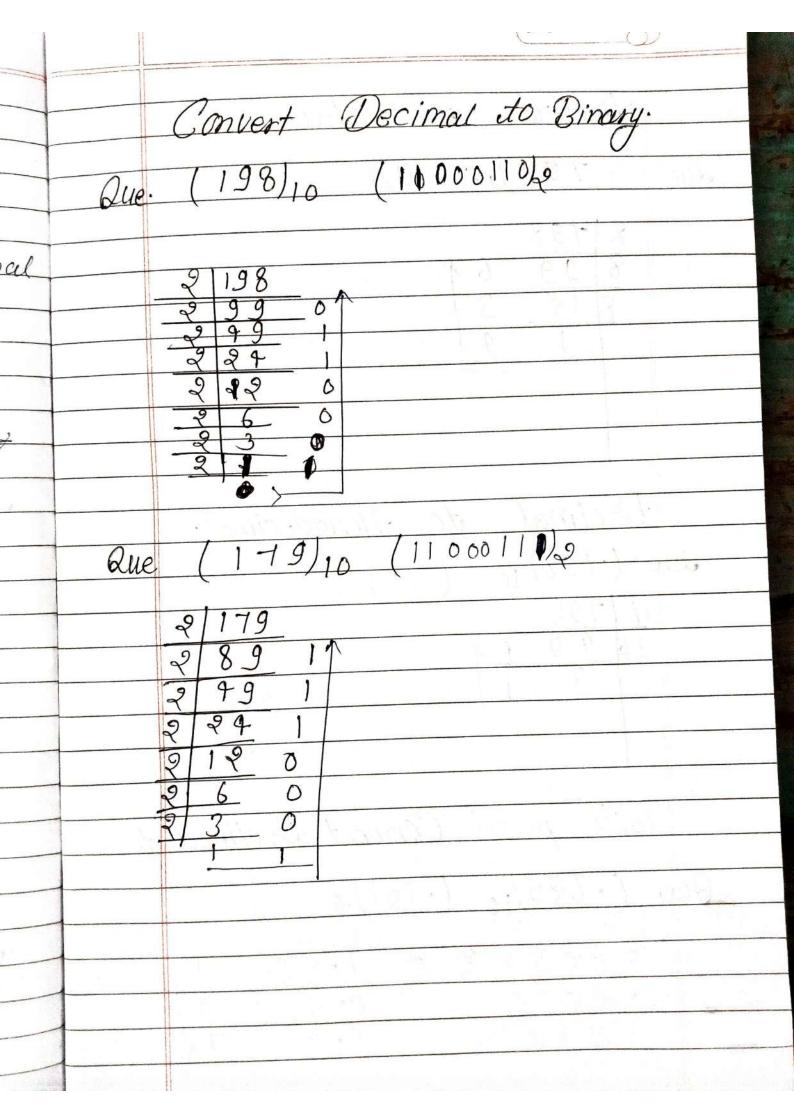
cimal.



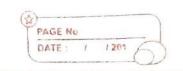
Convert Heradecimal do Octal. Que. (TA6C)16 = (075154)8 Solve firstly well convert Hexaclecimal (0111101001101100/2 Now we'll convert into Heradecima (075154) g Solved. Que. (6A.4)16 = (159.10/8 Firsty we'll convert Heradecimal do Binary. (001101010.0010)2 Now convert into octail (152.10)8 Solved.

Que

Que



	Marian 1 da Balal	
Que	Decimal to Octal. (198)10 1(1436)8	
	8 798 8 99 6 1 8 12 3	
	8 17 3	With
0.	Decimal to Heradecimal.	
Q II	e (-198) 10 (31E) 16 198 16 49 E 1	
	3 1	
	With point Convert Decimal to Bin	cm.
Que	e. (·625)10 (·101)2.	d
	$.695 \times 2 = 1.95$ $.25 \times 2 = 0.5$ $.5 \times 2 = 1.0$	



with point convert Decimal to Octal.

Withpoint Decimal to Heradecimal.

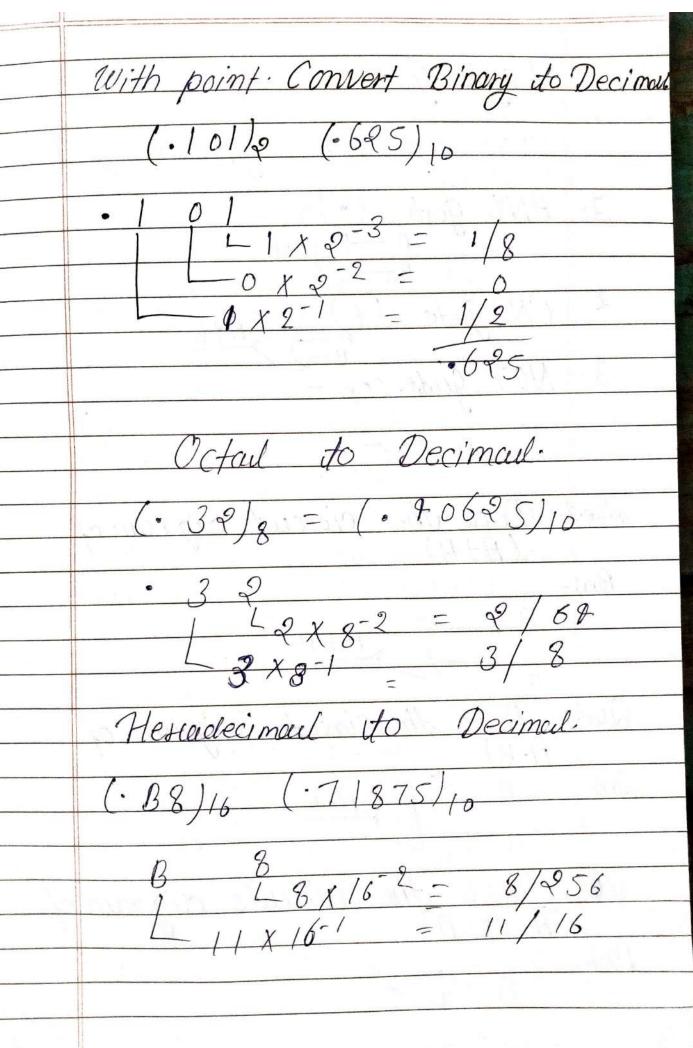
Convert Binary to Decimal.

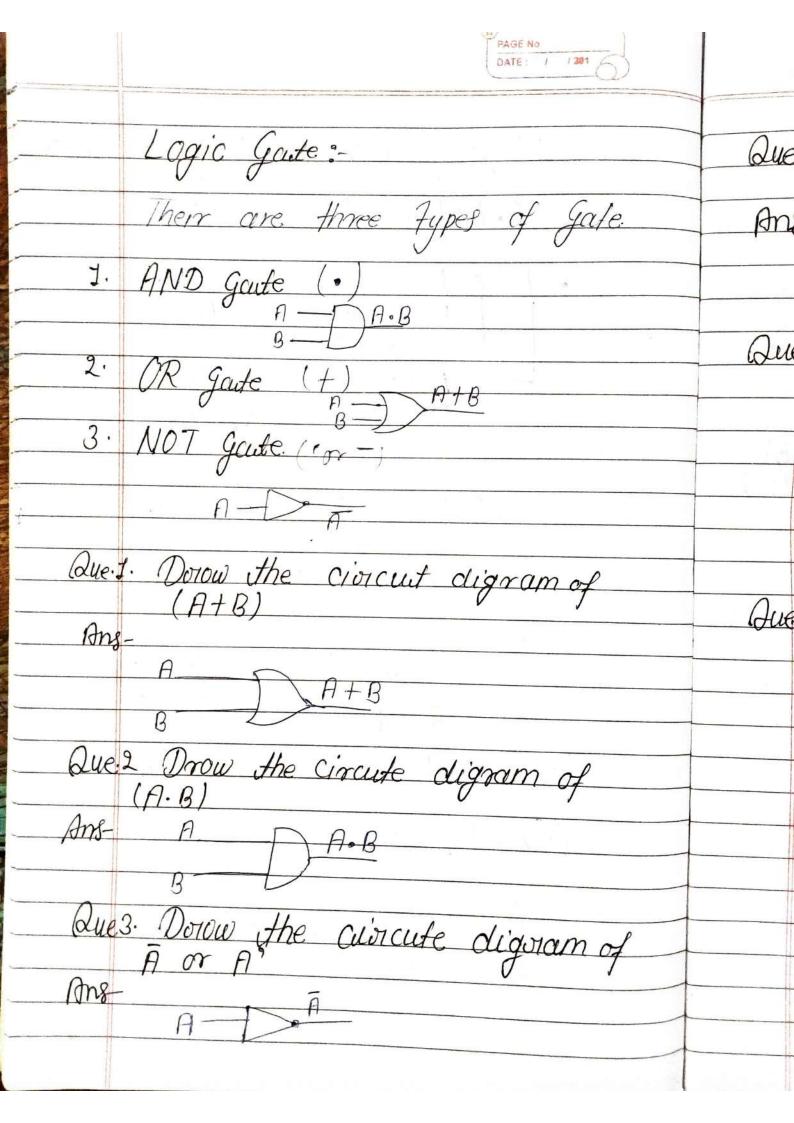
Bin any.

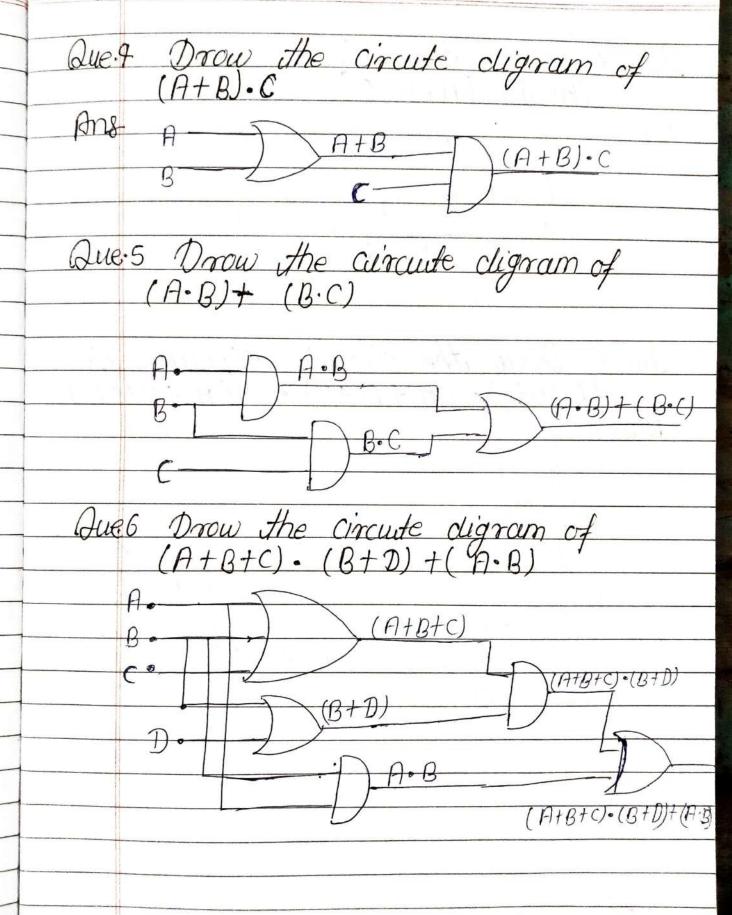
Convert Octail to Decimal.

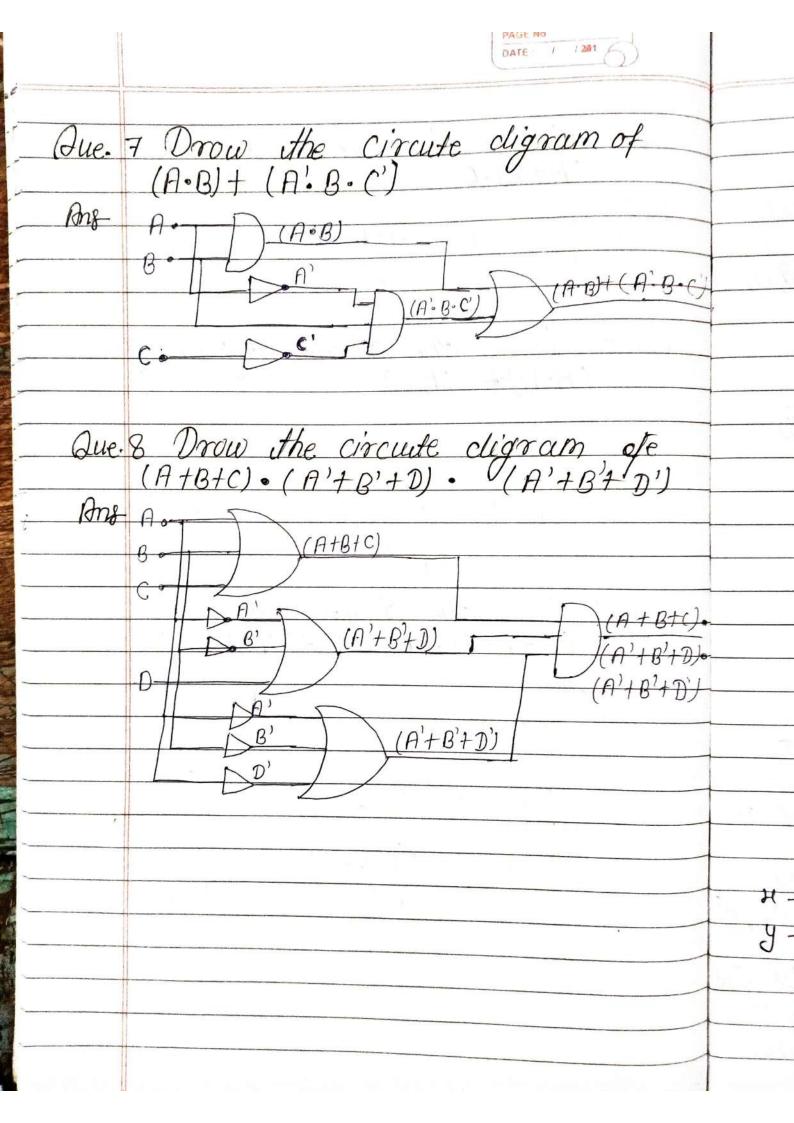
Convert Heradecimal to Decimal.

$$(13A)_{16} = (314)_{10}$$







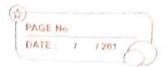


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or more once. But XOR facte produse output one for only those input combination that have ors numbers of once. A DB 0 1 0 0 Output Onefor only those input combination that has even number of ones. Another word XNOR Gaute is logical equabalence two and inverted XOR. XOR Gate followed by a Not gate XOVOR gate produse one (high) output when the input Combination or even numbers of once.



Memory Herarchy:- The memory The Hierarchy Consist of tolar memory System of Cache from highly Slow ouncelary memory to a relativicity fact memory ito cache memory that can be accessible to the high speed processing logic five level of memory Drive.

Register Cache 39kb Mouin Memory 16 ms

Magnetic CUSK

Tape Optical

ait the top of it hierarchy their us CPU register with its access cut the full CPU speed processing logic.
Their avie local memory to CPU

CPU as required this types of

memory.

Cache memory wich is currently on the order of 32 kB to few.

megabite.

Next is main memory with Size currently running from 16m8 for intrilevel system to few Gegabyte at the other in. Next is magnetic disk and finally we have magnetic tape. The study has we move down hierarchy mainly depend apon 3 key Oparamidter. 1. Access ctume 2. Storage Capacity Ficcess time:

CPU regulsters are

CPU vocail memory and access in

few megabites. Cache memory

take a small multipail of C.PU register. main memory access time are criticly few tens of nano seconds now a come a big gape as disk access time and when the second and optical disk access maybe masured in Seconds.

DATE: 1 1201

Storage Capacity &- The Storage th 16 mB capacity increase as the go down hierarchy C.P.U negisters are good for 128 bytes cache gabyte finaly memory avie few megabites main memory. are do 10 do 1000 megabyte. own Magnetic disk capacity are few Ge Gachytes. Assossicutive Memory:
A memory Unit const accessed by content is called an assosisiative memory or content addresable memory. (C.A.M.) When a word is written on an avre 088088 icutive memory no address us 1 in quen the memory is couple of finding a empty sociation to store the word. rificly When a word is to be read from now d an 088088iactive memory the content of the word is specifif. access The memory local attall words wich ngmach the Spacify contant and mark raybe This type of memory access & Simultaneously and the parlar on



	PAGE NO. DATE: / 201	
	the basis of data rather than by	
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DATE: / /261

memory Organisaction:

Am electronic cercuit that alow data do be store and retry. When required . It processe us called memory.

Memory unit that comunicate
directly with the CPU this
us known as main memory.
The storage that provide backup
storage is called as auxiliary memory
It storage the set of instruction
Program, data and intermediat
of the computation.

Main Memory:

The memory Unit

that Comunicate Clive Icty with

the CPU is Califed main memory.

It is relately retact relatedly

fast memory besticly

use for store program and

data claing computer operation

The main memory can be

classifice into itwo cartegoriese.

1 Ram 2 Rom

Ram 3
It is use to read and write User can write information into Tam and read information from it. It is boilartile in nadure the informaction Worditeten un vit. Their aire two type of Ram.

Static Ram. Dinamic Ram Startic Ram 3-The Startic ram

Consist of uniternal flipflops

that stores the binewy information Dinamic - Ram 0-The Dinamic ram store information in the form of the electric charges that are applied to capaciter. The capaciters are provide inside the ram chip. by the unstruction.

Rom 8-Rom Stand for read only memory
It is nonbodatile. Information stored in uit us not dasit even uf the power Suply goes off.
It us use for parmanently Storage of information.

The Stored information can only spead from rom as the time of operation and nothing can be written unto rom by user Defrent Types of Rom :-PROM:- Programable read only memory
EROM:- Faviesiable read only memory EEPROM: - Flectronicculty enorsible only memory.