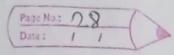
+> BCD code (Binary coded decimal):-94 is represented in any single decimal digit. 2>0001 12 -> 1100 000/00/0 10010 BCD to decimal: devide BCD in 4 bit format, 24 will give one digit. ex. -10011 > 0001 0011 > 13 00110011 -> 0011 0011 -> 33 100001 -> 6 6H required 33 in binary 2 00110011 -> 6 bit seguired Bin BCD -> In case of BCD, each digit in decimal sequise 4 bit accor in form of 842

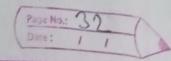


>BCD addition:-Rule 1: - To add two BCD number, add consesponding and digits of two bod number. Rule 2: - After adding first see the result, if the result is grater than I or any carry generated, the result is invalid BCD. Rule3: To CORRECT In valid BCD and lay adding 6 g. add. BCD 8 and BCD 4 8-> 1000 4-> 0100 1100 as 1100 is glater than 9, So it is invalid BCD so, add b in BCD 1100 0110 10010 > 12 660

000/0010 10 10 10 10 10 BCD BCD 9 + BCD 6 1001 1111 -> 15 600 1111 15 grades than 9 50, 110001101 +0110 00010101 -> 15 BCD NOTE: - while adding co carry from & digit(4 bit)can't be added to not digit (next 4 bit). > 9's compliment! 94 can be dobained by subtracting each deminal digit by decimal for 28, 95 compliment is 71

	Page No.: 30 Date: / /	
	FOR BCD, you have to write	14
	9's compliment of 28 is	
	Ø111 0001	
9	360 9'2	
	-> 99·	
	63 -> 01100011	
	So, 9's compliment of 36 1s	7
2)/16	0/1000/1	1
	- Edward Winster	
	NOTE: - In writing BCD Form	mades
	E 3 +30/45/2000 10/1 S 30 19 08	

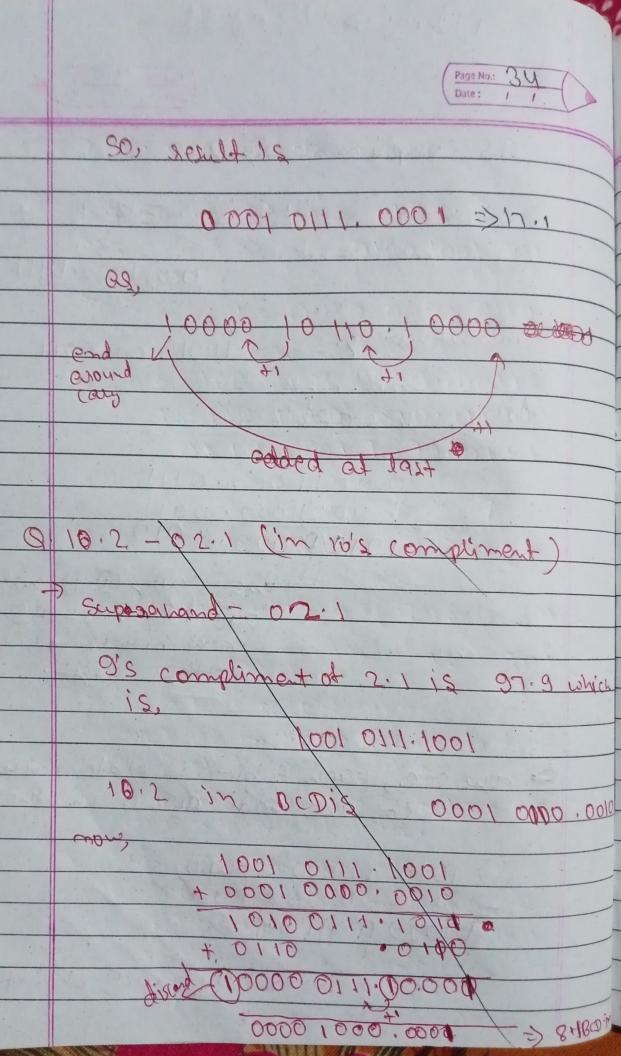
+> 10's complament! To get 10's compliment add 1 to 9's compliment. 10's compliment of 12 99 gs -> 87 10'5-> 88->1000/000 So, ans as 1000/000 46 10'S compliment 99-46= 53 01010100 so ams is,



BCD Subtraction: Rule 11 - Take 9's compliment for 80 Suptahand. Rule 21- add it to the minusered why Pules: - 92 Result is invalid BCD.

then connect by adding 6. Rule 9'- Shift the Cashy to new Rule Si- 97 and around carry generated then add it to the Regult. Con Find of complement of result. In Subtage Hou minimand X-Y-> Suptrana 9.-) 98.3-81.2 Supt sahand - 81:2

Odenny > OD my \$\$ Page No.: 33 9's compliment of 91.2 99.9-8/12=18.7 00011000.0111 minwend-98.3 -> 10011000.0011 adding 98.3 and 18.7 00011000.0111 I this carry a 12 not added to next as next bit is fal other digit. on now, see, pach 4 bit is grater than so, we add Ded 6 in then, 10/0 10000 10/0 (10000 00110 0110 0110 + 0110 00000) These extra carry will shifted to new pit.



9. 1206.4 - 507.6 S + SOT. 6 09'S ca = 492.3 E-15 626 8 99 -0100 1001 0010.001 m=206. 1 = 0010 0000 0110.0100 \$ 0/00 1001 0010.0011 0010/0000 0110.0100 0110,000,1000,0111 9t is Ever as, no fend carry. 0's compliment of 698. 7/15 301.2 105 11 11 698 11 15 3013 > Rules of 10's compliment sub-· Convert 1015 compliment of Suptrhand add it to minhand using BCD addition. " of result is invalid bcD, make it valid by edding 6 to invalid digits. · Shift carry to noxt bits. · 9f end around carry is there then discard it, and is no there then sesut is regule now consider ros compliment to set schilt final.

	(mm 35 (mm 35)
-	> Excess - 3 code!-
-	94 is a sequence code.
The second secon	digit of BCD code
-	excess 3' for 12 is
	12 33 45 > 0100 0101
	SO, 45 12 excess 3 code of 12
	NO. BCD EX-3 0000 0011(3)
	0 0000 0100 (4)
	14 00010100 0000111 (AT
#	
	Coffee Company of the