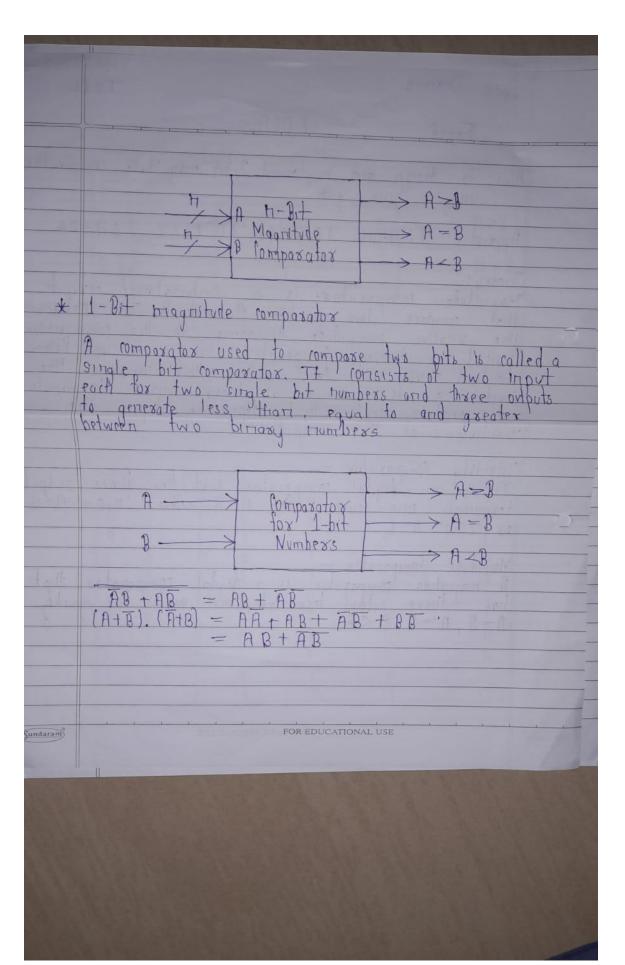
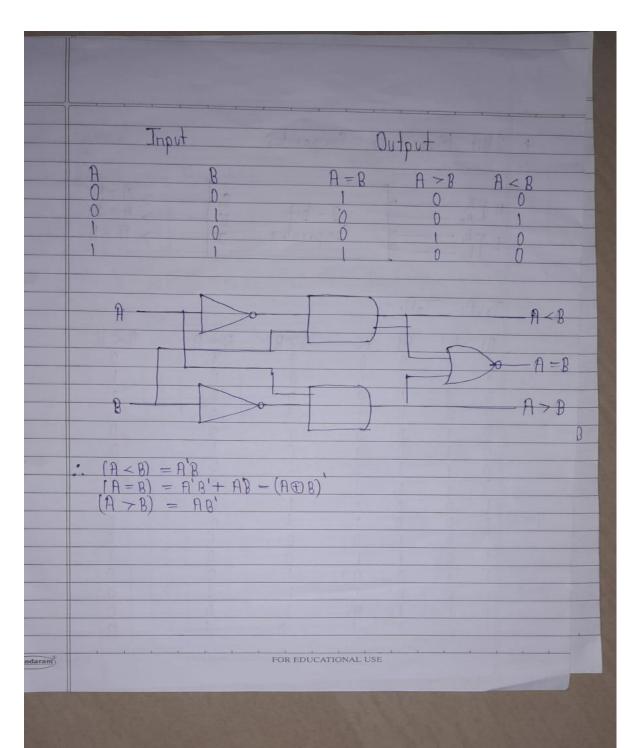
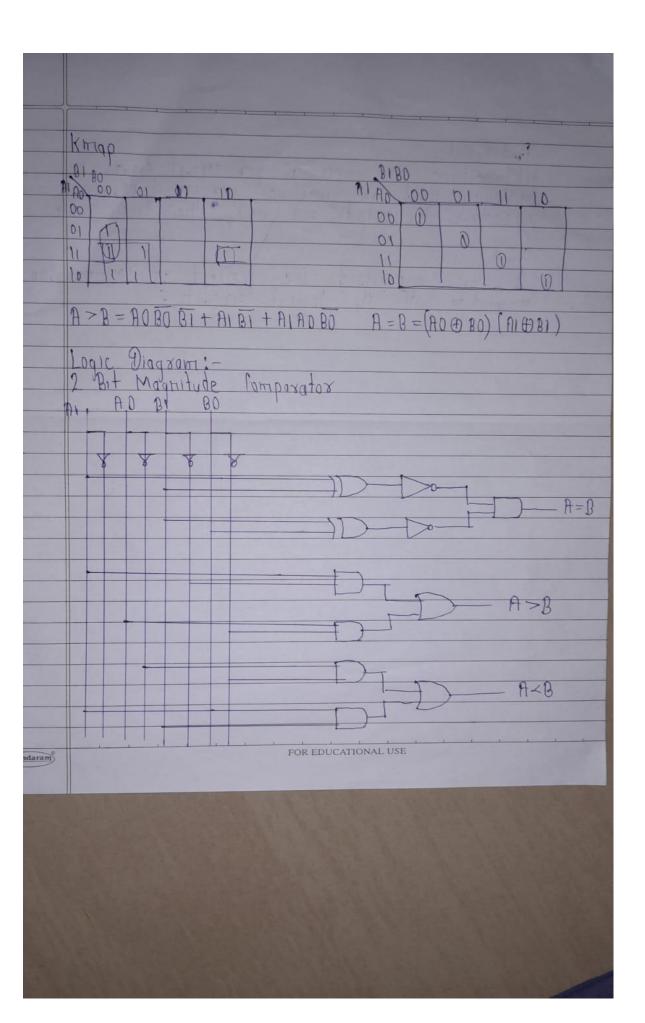
Anish Sharma 6000 32200 45 TO11 Exp. 6 AJGL Aim: To design and implement 2-bit magnitude composator using basic gates Apparatus: TC 7408, TC 7486, TC 7432, TC 7404 Theory: Magnitude composatos is a combinational cixcuit that compose two number A and B. It detirmines the relative magnitude according to the comparison. Digital or binoxy composators are made up standard AND, NOR, NOT gates that compose the digital signals present at their injust traminals condition of those inputs. Identity Comparator -It is a digital comparator that has those output traminals, one each for A=B either's 'Hight' A=B 0x 'LOW" A=1 Magnitude Composatos A magnitude composatos is a digital composatos that
has those output terminals, one each for equality. A = B, A > B, A < B. FOR EDUCATIONAL USE undaram



*	2 Bit N	lagnitude	Comparator			, , ,
7	A [A B [B		2-bit Comparator	G E I		
Sundaram	AL AD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	81 BO 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	A > B 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0	A = B 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 1 0 0 1 ATIONAL USE	A < B 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0	





Prod Procedure: (i) Connections are given as per circuit diagram.

(ii) Logical imputs are given as per circuit dragram.

(iii) Observe the outputs and verify the truth table Conclusion: omparator FOR EDUCATIONAL USE daram

