## University of Management & Technology

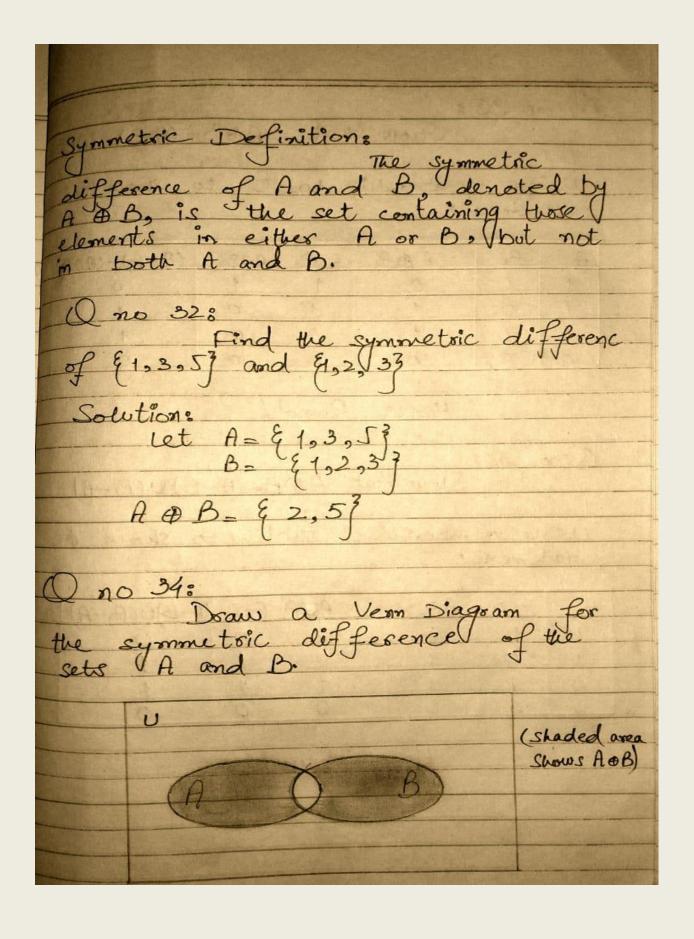
Knowledge unit of Science and Technology

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PROGRAM:BS:SE

SUBJECT: DISCRETE STRUCTRURE



( no 35 : Show that ABB = (AUB) - (ANB)

Using membership table to show the

Δ	a	ABB	AUB	ANB	(AUB)-(ANB)
1	1	0	1	1	0
1	0	1	1	0	1
0	1	4	1	0	1
0	0	0_	0	0	0

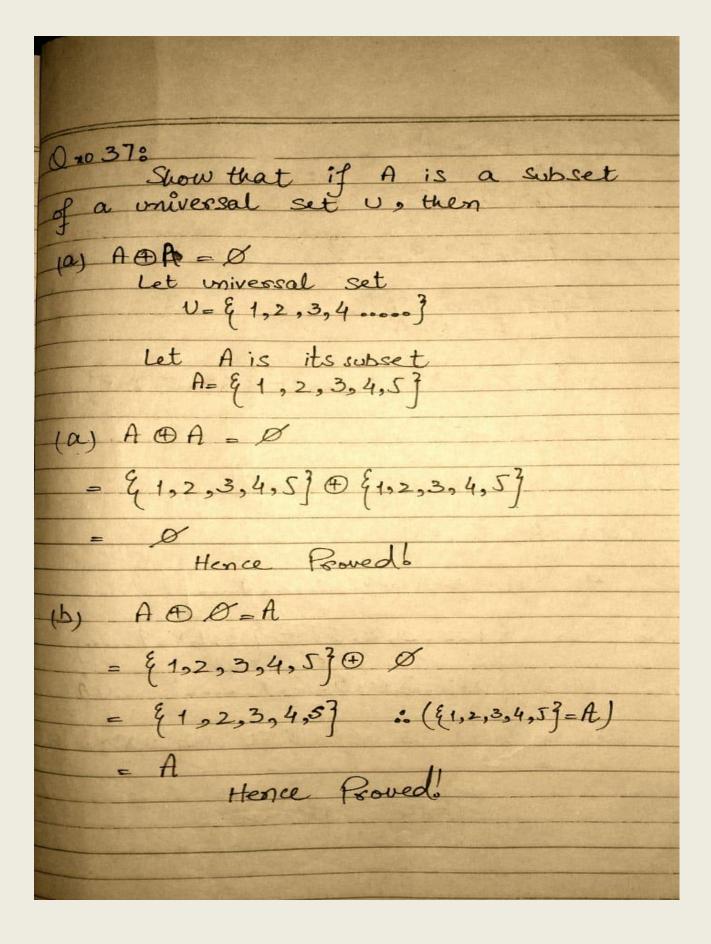
Hence Proved!

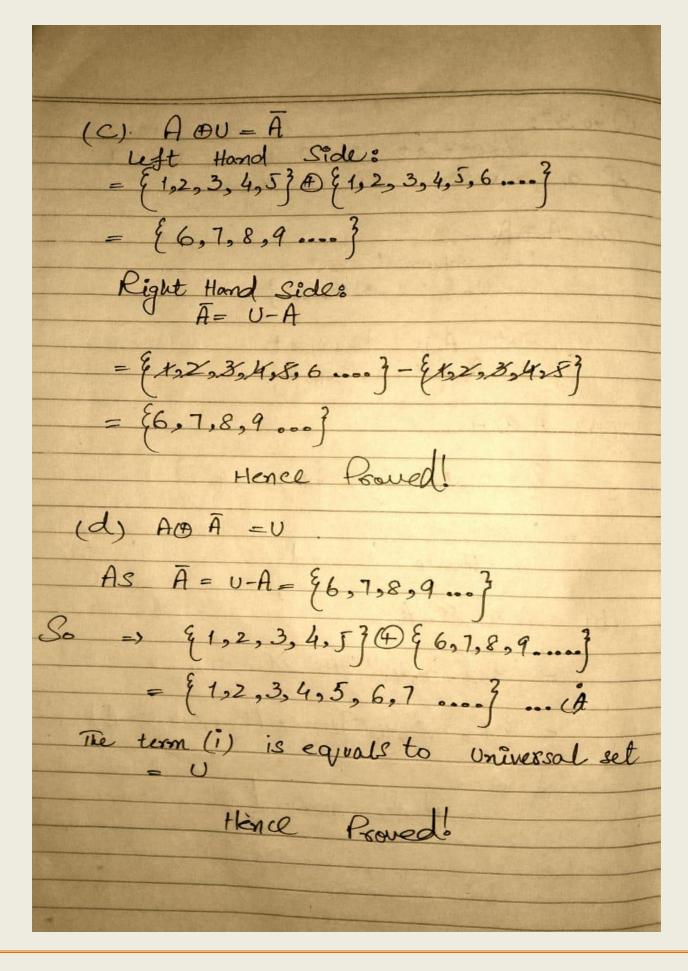
Qno 36: Show that AAB=(A-B)U(B-A)

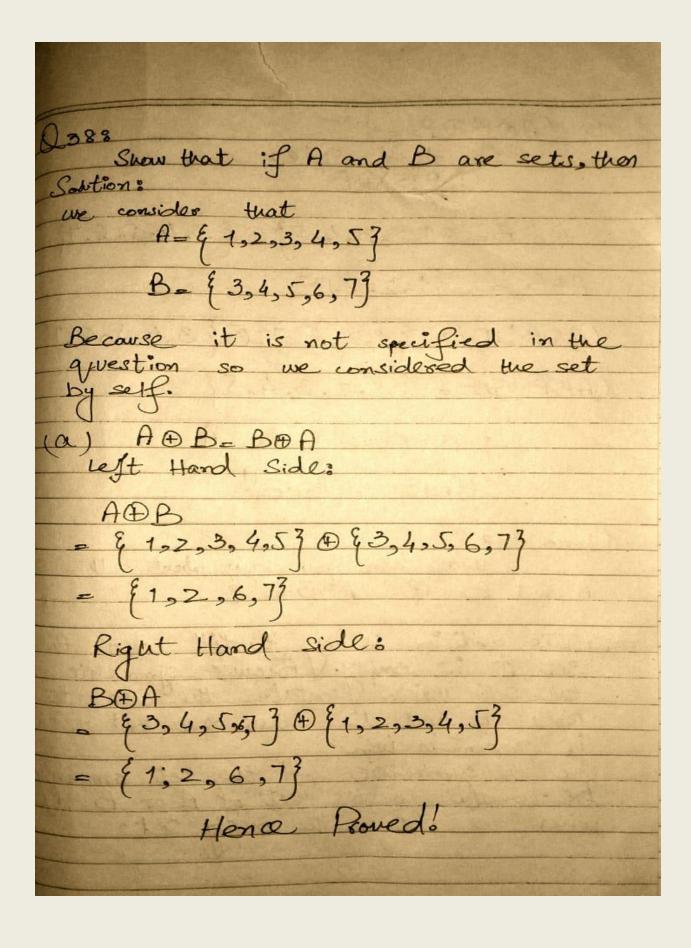
Using membership table to show the

A	B	ABB	ABB	B-A	(A-B)U(B-A)	100
1	1	0	0	0	0000	
1	0	1	1	1	1	
0	1	1		1		-
0	10	0	Ó	0	1	1

Hence Proved 6







(b) (ADB) +B=A left Hand Side: (ABB)BB ABB= & 1,2,3,4,5} @ & 3,4,5,6,73 AOB = {1,2,6,79 (AOB) OB= 41,2,6,79 0 (3,4,5,6,7) (ABB) (B= { 1,2,3,4,5} It is equals to A Hence Powed! () no 398 What can you say about the sets A and B if ABB=AU? Ans: This condition is only fulfill when the set B is empty. Because symmetric means the set which I contains the elements of Dotte A and B other than that which is present in both. So the symmetric of two set can only be equals to the set of A or B when one set is the empty set.