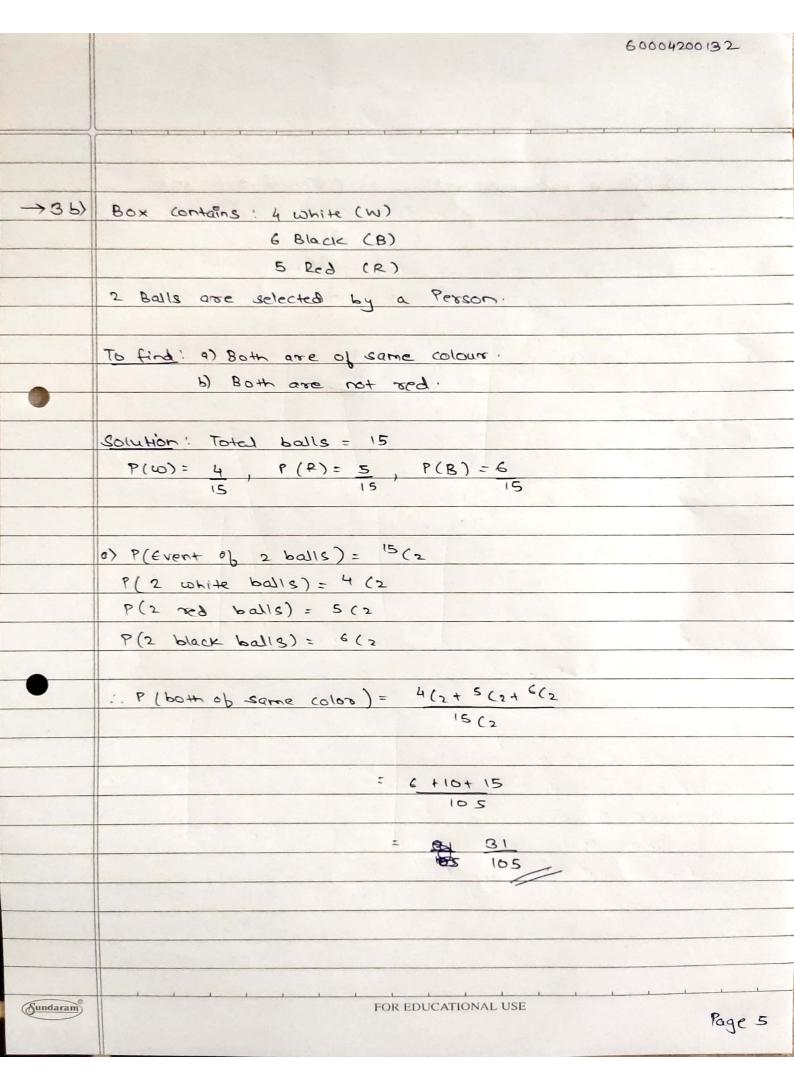
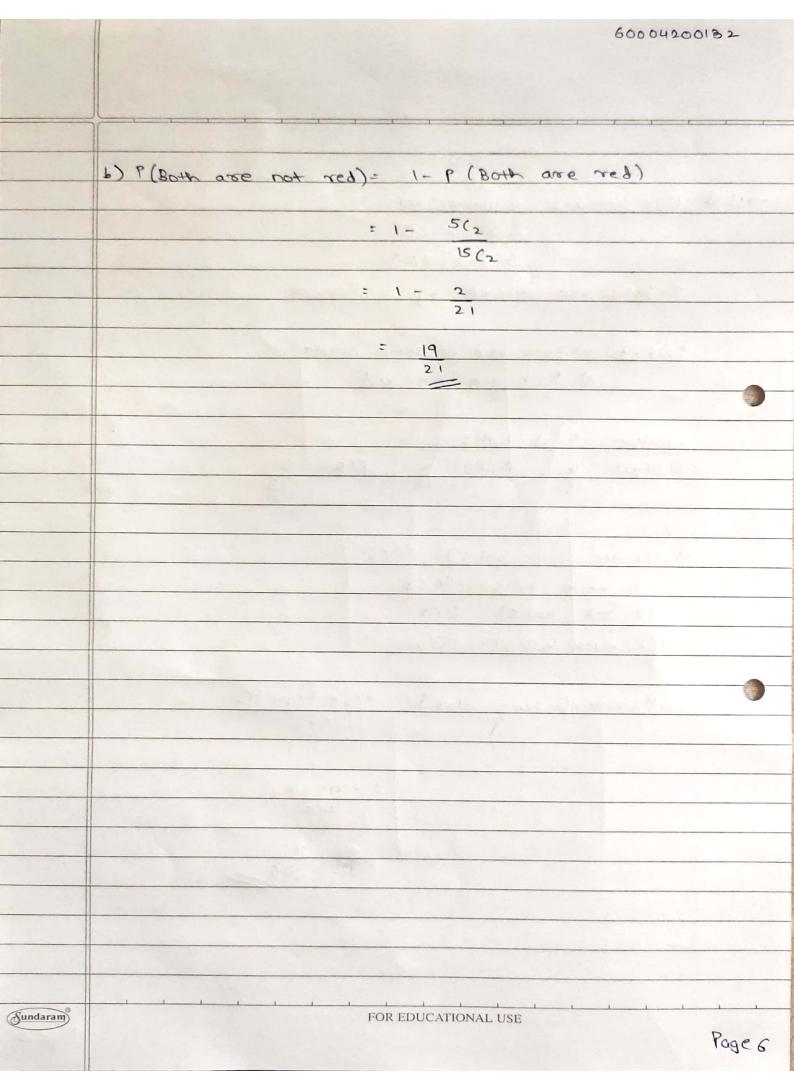
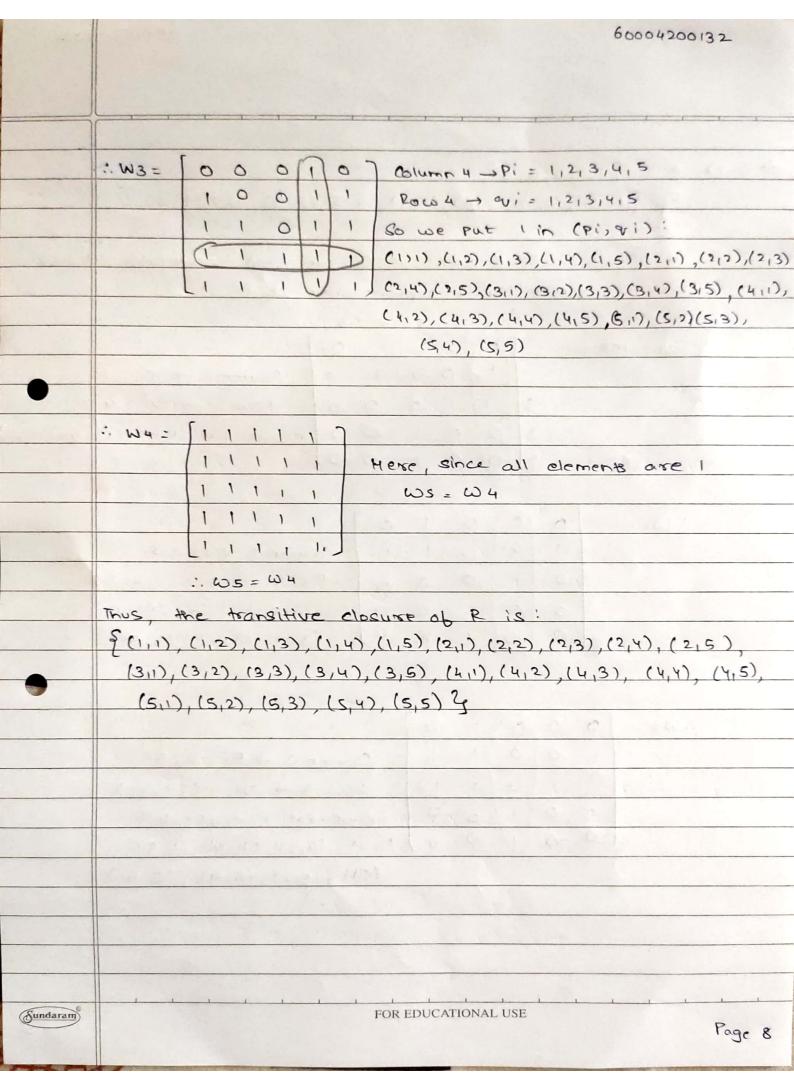
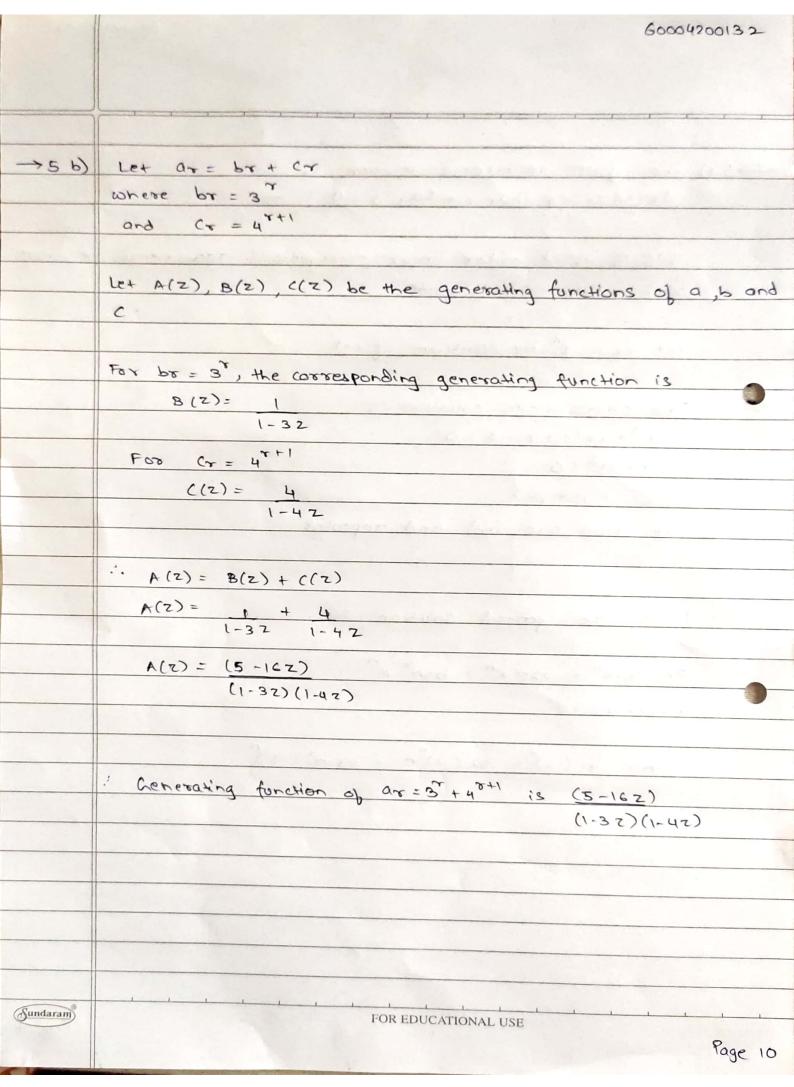
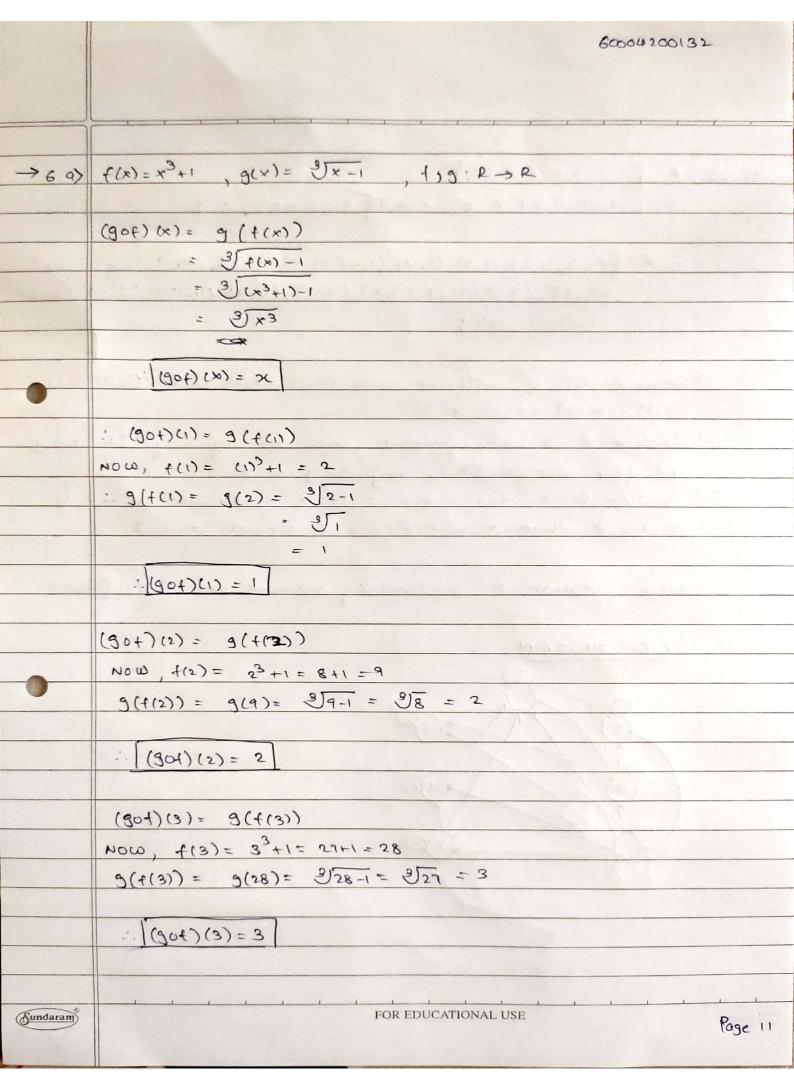
21/02/22	Name: Ayush Jaln SAPID: 8000 4200132 Div: BI Discrete - Structures Computer Engineering Solutions:
→ 1 a>	Let C = Sportsmen who play cricket F = Sportsmen who play football H = Sportsmen who play hockey Total Sportsmen = 100
	$ \begin{array}{ll} $
	: TT= 45+21+38-18-9-4+ 1CNHNF1 : TT= 45+21+38-18-9-4+ 1CNHNF1
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A= \$ 1,2,3,4,6,9,123
R= ((a,b): a,b e A, b is exactly divisible by a y
: R= {(1,1), (1,2), (1,3), (1,4), (1,6), (1,9), (1,12), (2,2), (2,4), (2,6),
(2,12), (3,3), (3,6), (3,9), (3,12), (4,4), (4,12), (6,6), (6,12),
(9,9),(12,12)}
Relation R is reflexive, since (1,1), (2,2), (3,3), (4,4), (6,6),
(9,9), (12,12) exist in R.
Relation R is anti-symmetric, since for any x, y, if x Ry
and yez are in set R, they x=y only.
Relation R is transitive, since it x divisible y and y
divides z, then x will sivides z for all x, y, Z.
Hence, redation R is Partially ordered set, i.e. POSET
HASEE DIAGRAM
7(12)
6 71 292
(3)
1//
(2)
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