

M.C.A.S.C., PUNE - 411005.

Page No. :

Date :

2] Determine LCS of sequence of x and y where
 $x = (B, D, C, A, B, A)$ $y = (A, B, C, B, D, A, B)$

		A	B	C	B	D	A	B
i \ j	y_0	y_1	y_2	y_3	y_4	y_5	y_6	y_7
x_0	0	0	0	0	0	0	0	0
B x_1	0	0	1	1	1	1	1	1
D x_2	0	0	1	1	1	2	2	2
C x_3	0	0	1	2	2	2	2	2
A x_4	0	1	1	2	2	2	3	3
B x_5	0	1	2	2	3	3	3	4
A x_6	0	1	2	2	3	3	4	4

if $x_i = y_j = 1 + \text{diagonal}$

$x_i \neq y_j = \max(\text{up}, \text{left})$

\therefore String - BCAB or BDAB