

Quiz chapter : 6

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Group No 5

11-IE-43

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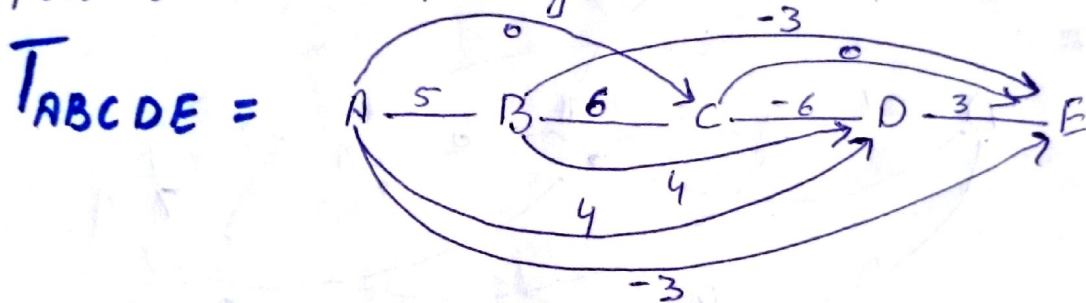
11-IE-09

(1)
Q NO 6.12

	A	B	C	D	E
A	-	5	0	4	-3
B		-	6	-1	2
C			-	-6	0
D				-	3
E					-

Solution:

Pairwise exchange method solution:

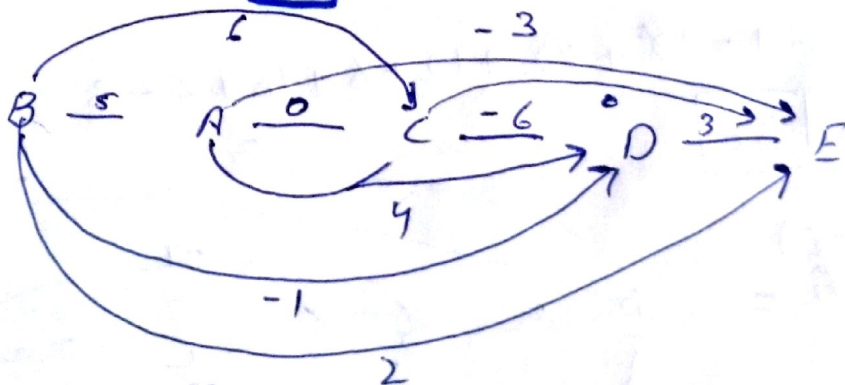


$$= 5(1) + 0 + 4(3) + (-3)(4) + 6 + 4(2) + (-3)(3) + (-6)(1) + 0 + 3(1)$$

$$= 5 + 12 - 12 + 8 - 9 - 6 + 3 + 6$$

$$= -22 - 15 = \boxed{-7} = \boxed{7}$$

$T_{BACDE} =$

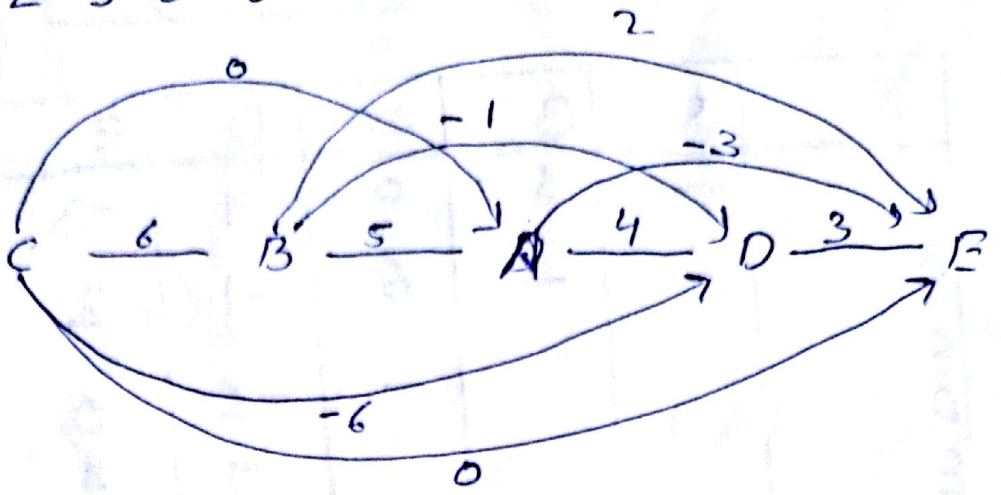


$$= 5(1) + 6(2) + (-1)(3) + 2(4) + 0 + 4(2) + (-3)(3) + (-6)(1) + 0 + 3(1) \quad \textcircled{1}$$

$$= 5 + 12 - 3 + 8 + 8 - 9 - 6 + 3$$

$$= \boxed{18}$$

$T_{CBADE}^{(A-C)}$

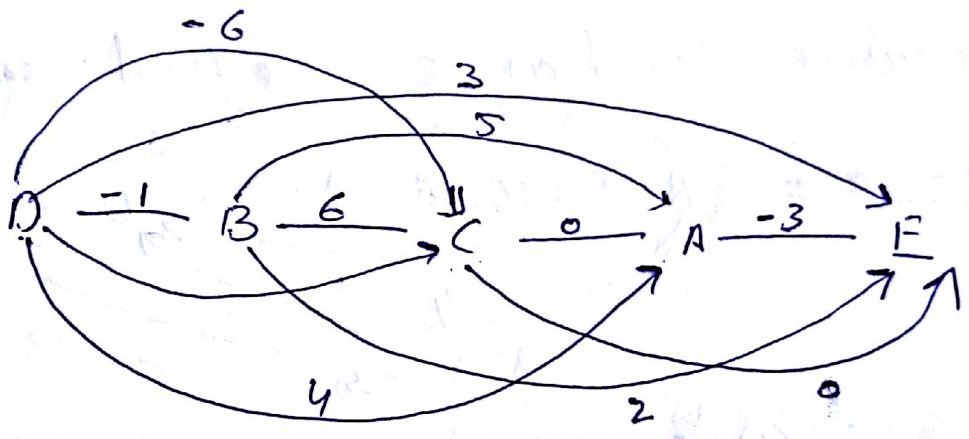


$$= 6(1) + 0 + -6(3) + 0 + 5(1) + (-1)(2) + 2(3) + (4)(1) + (-3)(2) + 3(1)$$

$$= 6 - 18 + 5 - 2 + 6 + 4 - 6 + 3$$

$$= \boxed{-2}$$

$T_{DBC AE}^{(A-D)}$

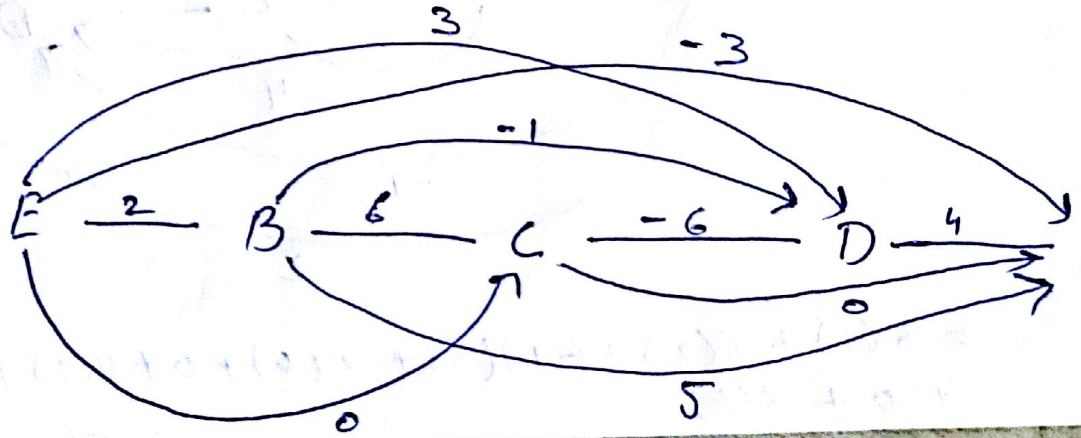


$$= (-1)(1) + (-6)(2) + 4(3) + 3(4) + 6(1) + 5(2) + 2(3) + 0 + 0 + (-3)(1)$$

$$= -1 - 12 + 12 + 12 + 6 + 10 + 6 - 3$$

$$= \boxed{30}$$

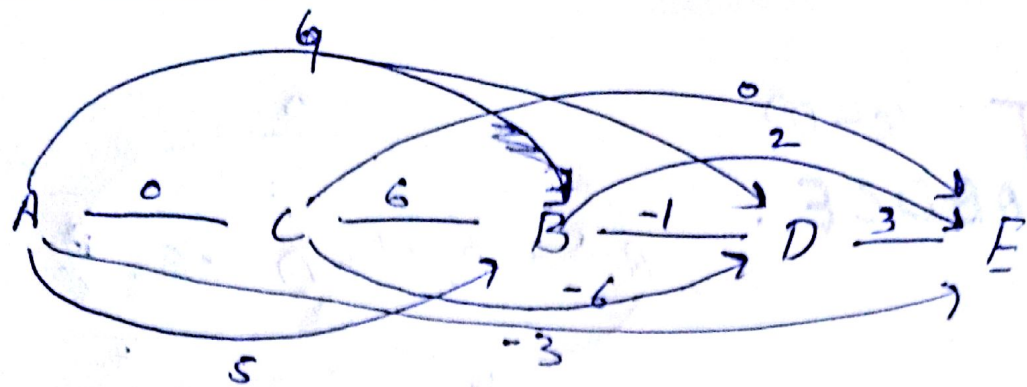
$T_{EBCDA}^{(A-E)}$



$$= \boxed{25}$$

(B-C)

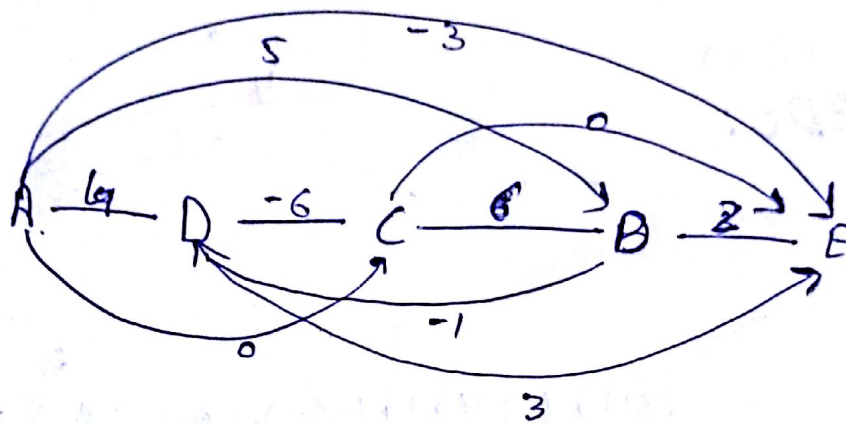
ACBDE :



$$= 0 + 5(2) + 4(3) + (-3)(4) + 6(1) + (-6)(2) + 0 + (-1)(1) + 2(2)$$

$$= 12 + 10 - 12 + 6 - 12 - 1 + 4 = \boxed{12 - 5} = \boxed{7}$$

(B-D)
TADCB E =

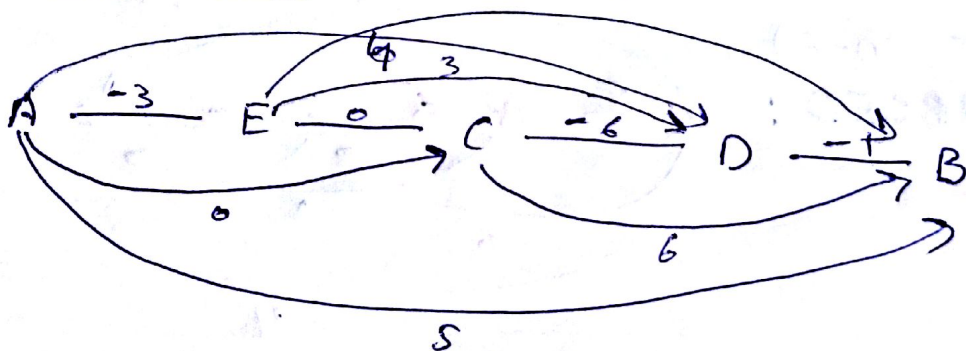


$$= 4(4) + 0 + 5(3) + (-6)(4) + (-6)(1) + (-1)(2) + (3)(3)$$

$$+ 0 + (6)(1) + 2(1) = 15 - 12 - 6 - 2 + 9 + 6 + 2 + 4$$

$$= \boxed{12 + 4} = \boxed{16}$$

(B-E)
TAECD B =

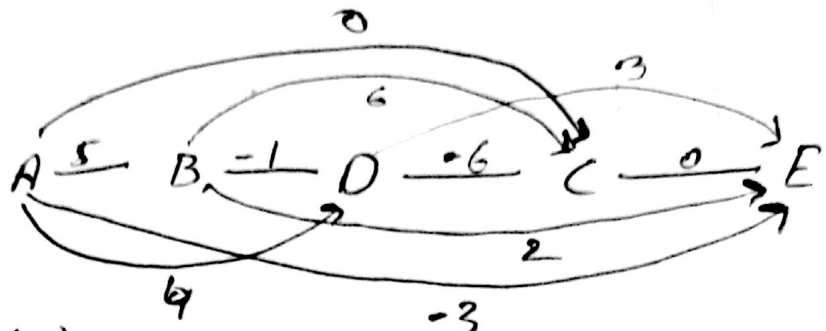


$$= (-3)(1) + 0 + 4(3) + 5(4) + 0 + 3(2) + 2(3) + (-6)(1) + 6(1) + (-1)(1)$$

$$= -3 + 12 + 20 + 6 + 6 - 6 + 6 - 1 + 12$$

$$= \boxed{28} = \boxed{40}$$

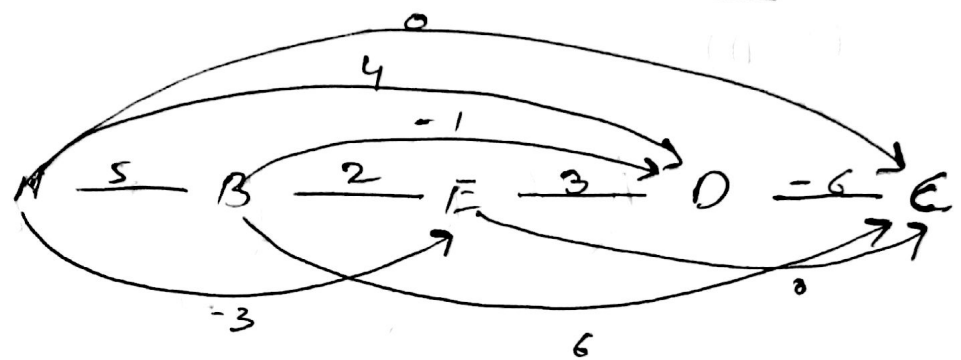
T^(C-D)
 ABCDE:



$$= 5(1) + 4(2) + 0 + (-3)(4) + (-1)(1) + 6(2) + 2(3) + (-6)(1) + 3(2) + 0$$

$$= 5 + 8 - 12 - 1 + 12 + 6 - 6 + 6 = \boxed{18}$$

T^(C-E)
 ABEDC:

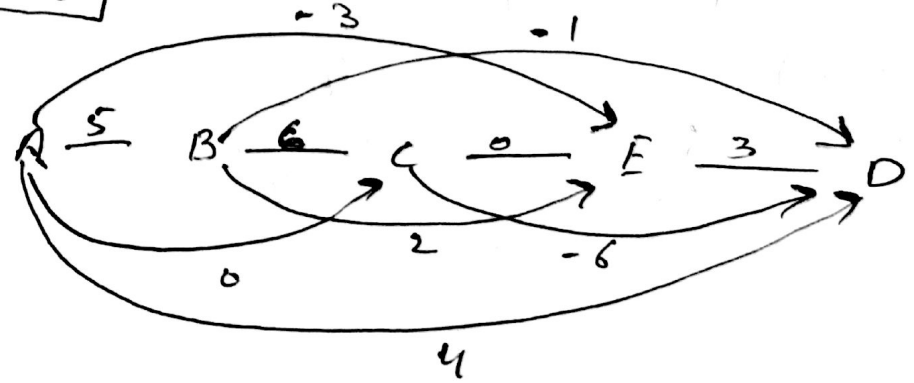


$$= 5(1) + (-3)(2) + 4(3) + 0 + 6(3) + (-1)(2) + 2(1) + 3(1) + 0 + (-6)(1)$$

$$= 5 - 6 + 12 + 18 - 2 + 2 + 3 - 6$$

$$= \boxed{28}$$

T^(D-E)
 ABCED:



$$= 5(1) + 0 + (-6)(3) + 4(4) + 6(1) + 2(2) + (-1)(3) + (-6)(2) + 0 + 3(1)$$

$$= 5 - 9 + 16 + 6 + 2 - 3 - 12 + 3$$

$$= \boxed{6}$$

So TCBAD E is efficient.
 = -2