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Semster: 7th.

Subject: Business process
Engineering.

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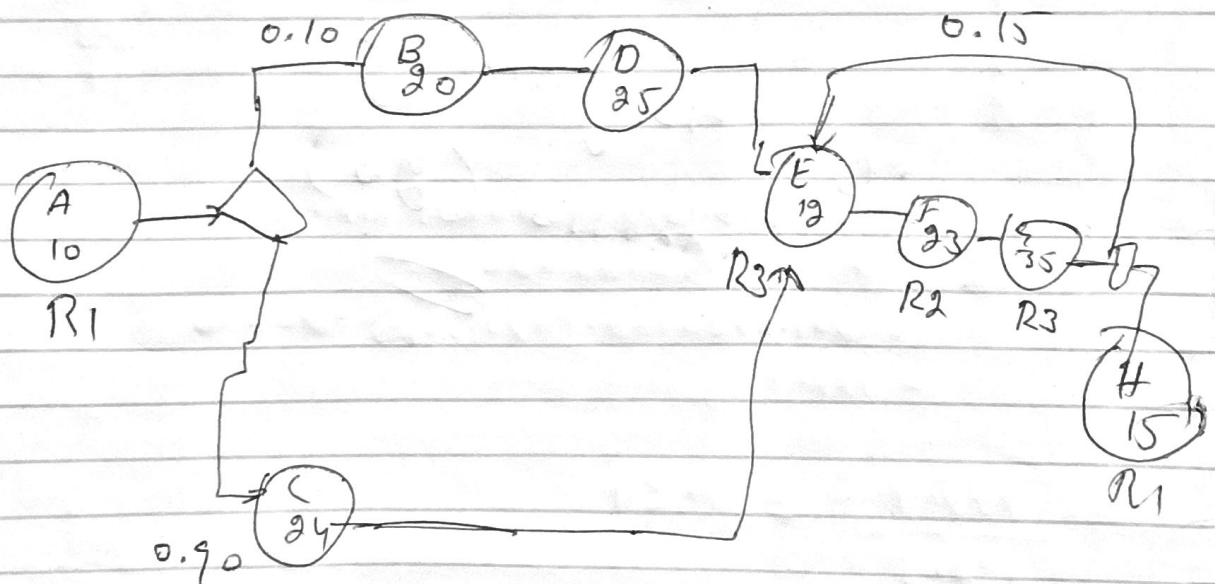
Mid Assignment
marks (20)
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Q1 LD calculation for Two Designs.

Centers	load	current Design		Design Proposed	
		Distance	LD score	Distance	LD Score
(A, B)	20	2	40	1	20
(A, D)	20	1	20	1	20
(A, F)	80	3	240	3	240
(B, C)	10	2	20	1	10
(B, E)	75	3	225	1	75
(C, D)	15	1	15	3	45
(C, F)	90	1	90	1	90
(D, E)	70	2	140	1	70
Total			790		570

Q2. Calculate the average CT for this process.

Activity	Waiting time	processing time
A	20	12
B	15	18
C	15 5	30
D	12	17
E	3	12
F	5	25
G	8	7
H	5	10
J	15	25
J	5	20
K	4	10



Page (3)

$$\begin{aligned} (T &= 10 + 0.10 \times 20 + 25 + 1.15(12 + 23 + 35) + 15 \\ &= 10 + 2 + 25 + 1.15(70) + 15 \\ &= 52 + 80.5 = 132.5 \end{aligned}$$

(ii) Calculate C-T Efficiency

Activity Time	Waiting time	Processing (min)	Activity time (min)
A	20	12	32
B	15	18	33
C	5	30	35
D	12	17	29
E	3	12	15
F	5	25	30
G	8	7	15
H	5	10	15
I	15	25	40
J	5	20	25
K	4	10	14

$$\begin{aligned} \text{Processing time} &= 12 + 0.10 \times 18 + 30 + 1.15(17 + 12 + 25) \\ &= 12 + 1.8 + 30 + 62.1 + 7 + 10 + 25 + 20 + 10 \\ &= 177.9 \end{aligned}$$

$$= \frac{177.9}{132.5} = 1.34$$

CT Efficiency is 1.34.