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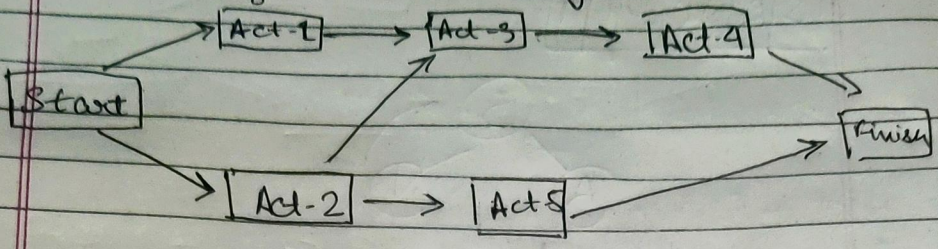
21905635 Assignment 3

(1)



Path 1 = A2 → A3 → A4 = 14
Path 2 = A1 → A3 → A4 = 12
Path 3 = A2 → A5 = 9

Act 1 → ES=1 EF=3 LS=3 EF=5

Act 2 → ES=1 EF=5 LS=1 LF=5

Act 3 → ES=6 EF=12 LS=6 LF=12

Act 4 → ES=13 EF=14 LS=13 LF=14

Act 5 → ES=6 EF=9 LS=11 LF=14

Critical Path = Path 1 = 14

EF = ES + D - 1

ES = EF (prev) + 1

LF = LS (next) - 1

LS = LF - D + 1

Float → Path 2 = 14 - 12 = 2

Path 3 = 14 - 9 = 5

Path 1 = 14 - 14 = 0 (critical Path)

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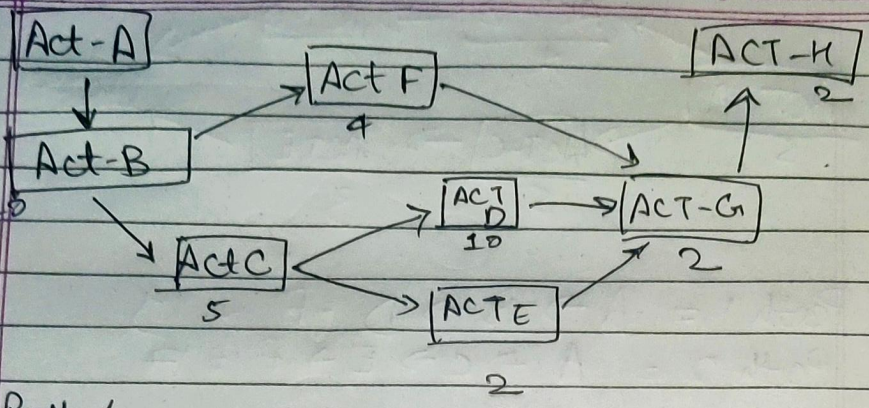
(2)



Path 1 = A → B → C → E → G → H = 41

Path 2 = A → B → F → G → H = 38

Path 3 = A → B → C → D → G → H = 49

→ Critical Path = 49

A → ES = 1 EF = 10 LS = 1 LF = 10
B → ES = 11 EF = 30 LS = 11 LF = 30
C → ES = 31 EF = 35 LS = 31 LF = 35
D → ES = 36 EF = 45 LS = 36 LF = 45
E → ES = 36 EF = 37 LS = 44 LF = 45
F → ES = 31 EF = 34 LS = 42 LF = 45
G → ES = 46 EF = 47 LS = 46 LF = 47
H → ES = 48 EF = 49 LS = 48 LF = 49

Float → Path 1 = 49 − 41 = 8
Path 2 = 49 − 38 = 11
⇒ Path 3 = 49 − 49 = 0 (critical Path)

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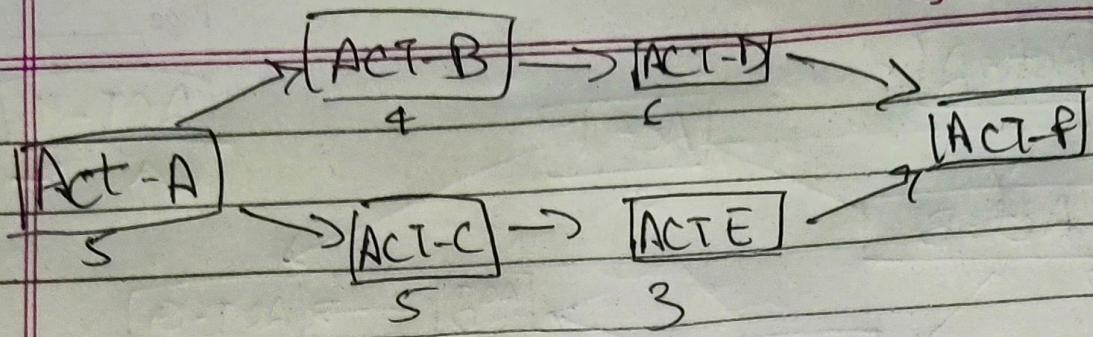

Path 1 = A → B → D → F = 19
Path 2 = A → C → E → F = 17

Critical path (Path 1) = 19

A → ES = 1 EF = 5 LS = 1 LF = 5
B → ES = 6 EF = 9 LS = 6 LF = 9
C → ES = 6 EF = 10 LS = 8 LF = 12
D → ES = 10 EF = 15 LS = 10 LF = 15
E → ES = 11 EF = 13 LS = 13 LF = 15
F → ES = 16 EF = 19 LS = 16 LF = 19

Float → Path 1 = 19 - 19 = 0 (critical path)
Path 2 = 19 - 17 = 2