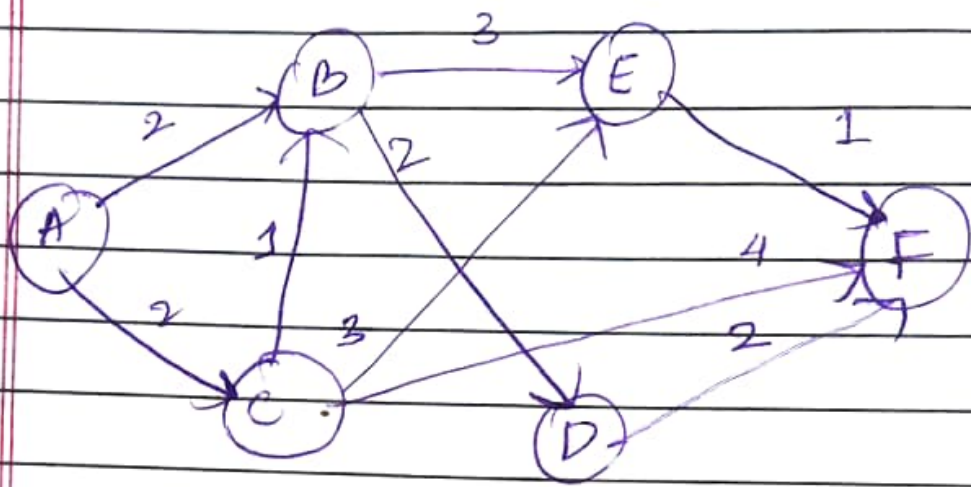


FLOW NETWORKS

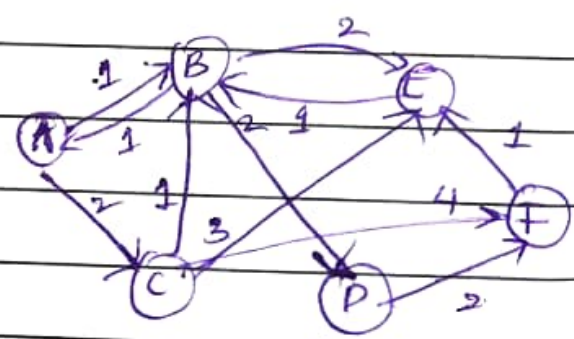
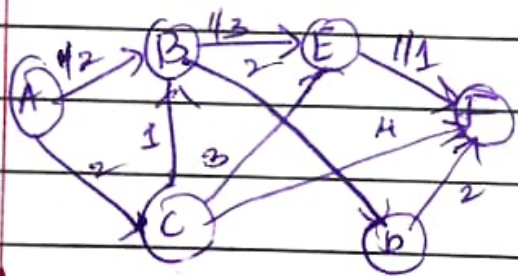
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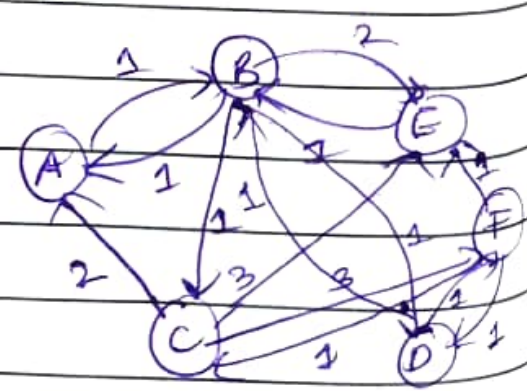
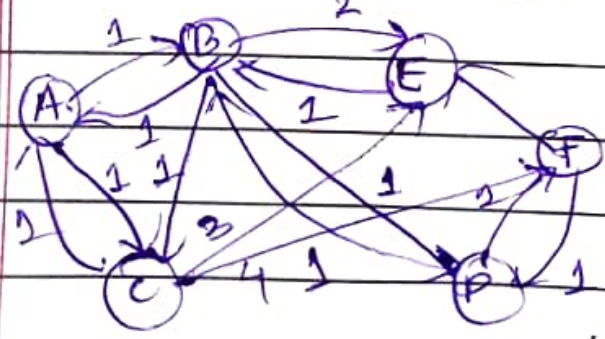
6m



→ (A) → (B) → (E) → (F) → min capacity = 1



→ (A) → (C) → (B) → (D) → (F) = 1

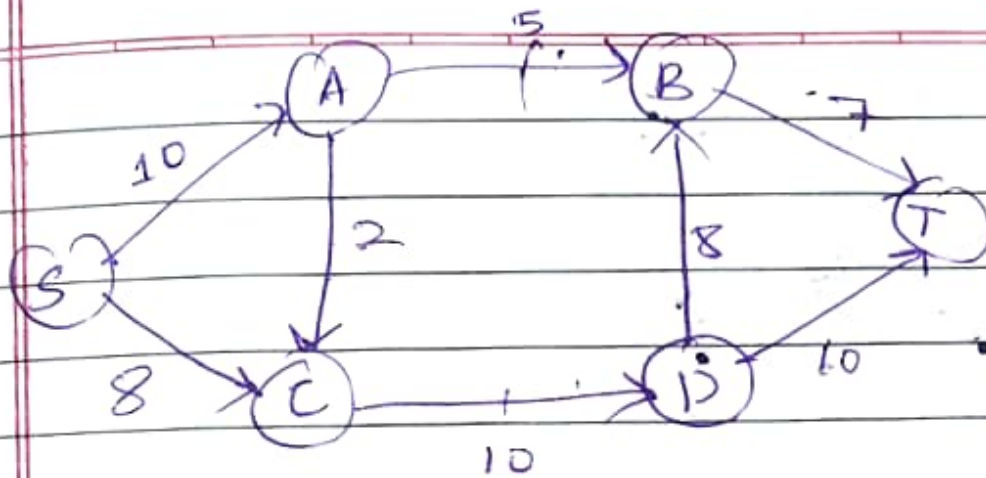


(A) → (C) → (F) = 1

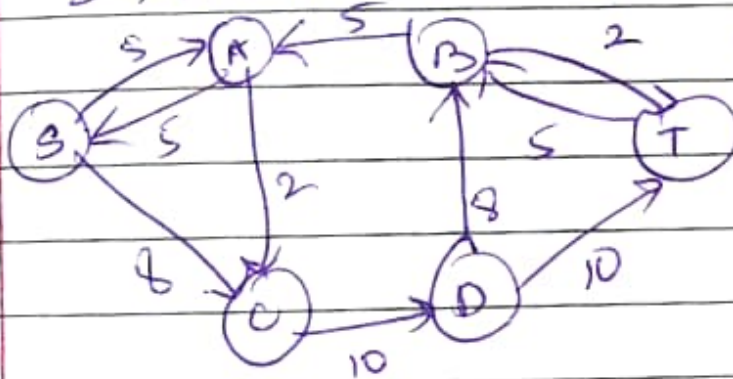
$|f| = 1 + 1 + 1 = 3$

(A) → (B) → (D) → (F)

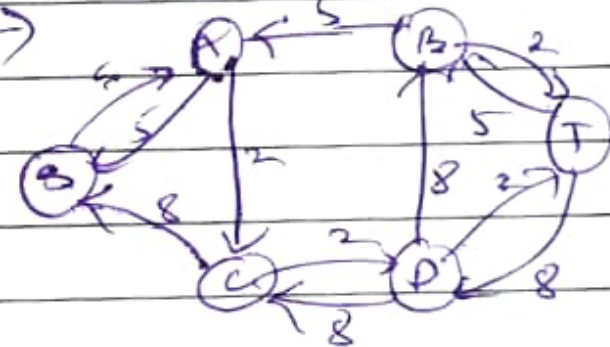
→ $|f| = 4$



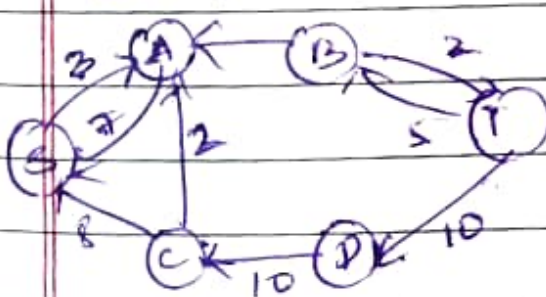
$$S \rightarrow A \rightarrow B \rightarrow T = 5$$



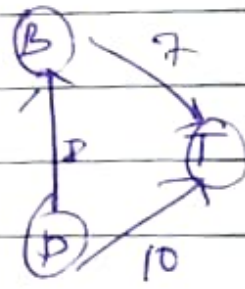
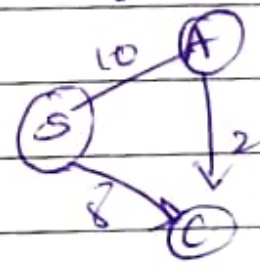
$$B \rightarrow C \rightarrow D \rightarrow T = 8$$



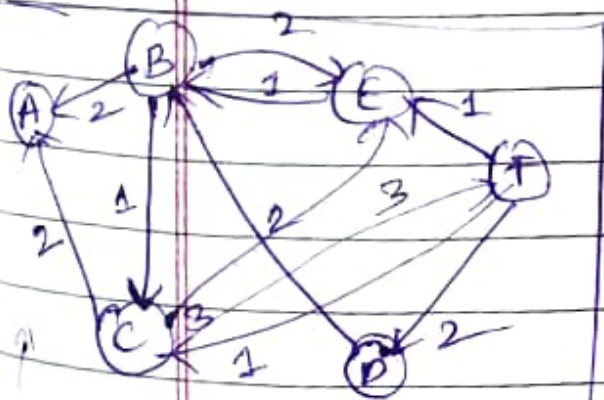
$$S \rightarrow A \rightarrow C \rightarrow D \rightarrow T = 2$$

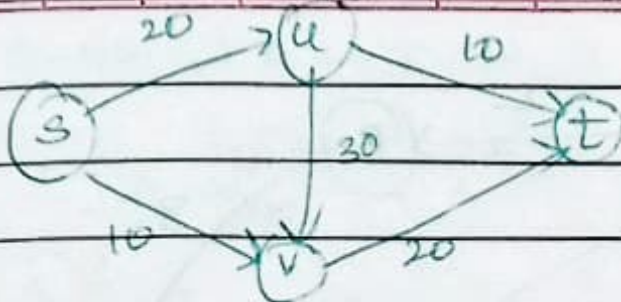


$$|f| = 5 + 8 + 2 = 15$$

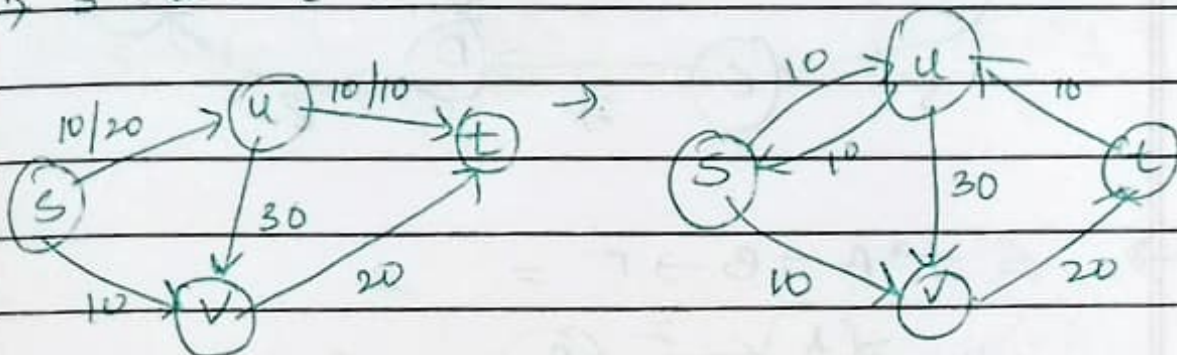


$$\Rightarrow \text{min cut} = \text{max flow} = 15$$

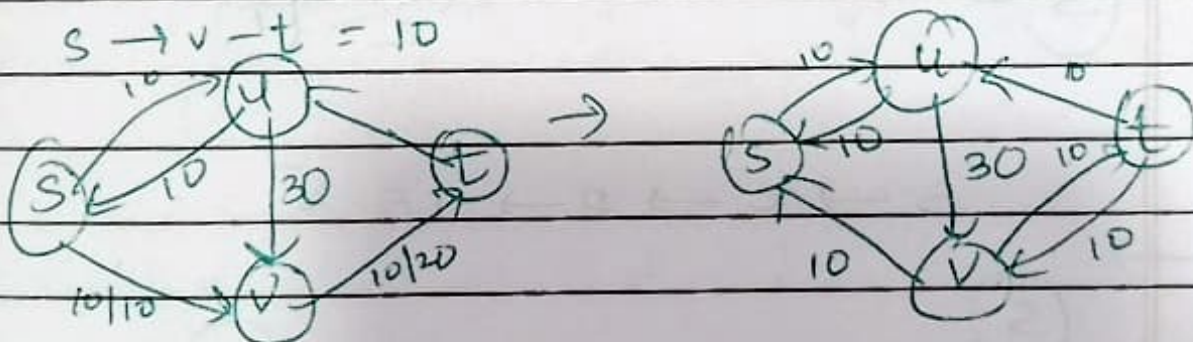




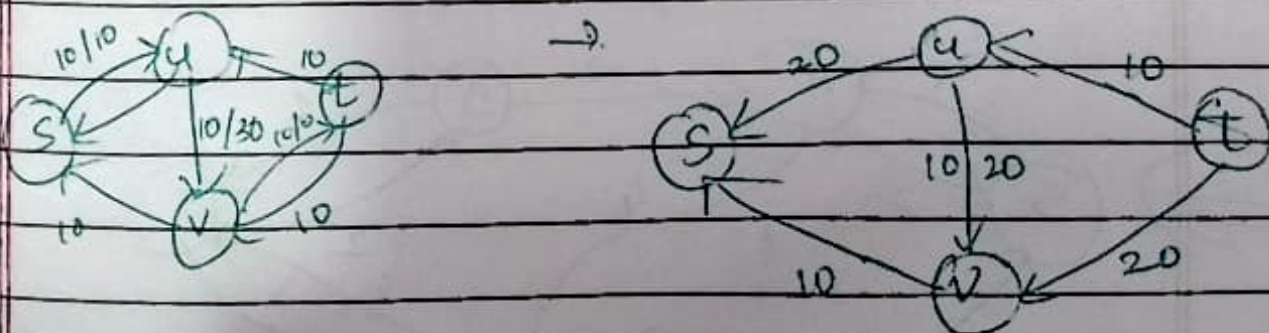
$$s \rightarrow u \rightarrow t = 10$$



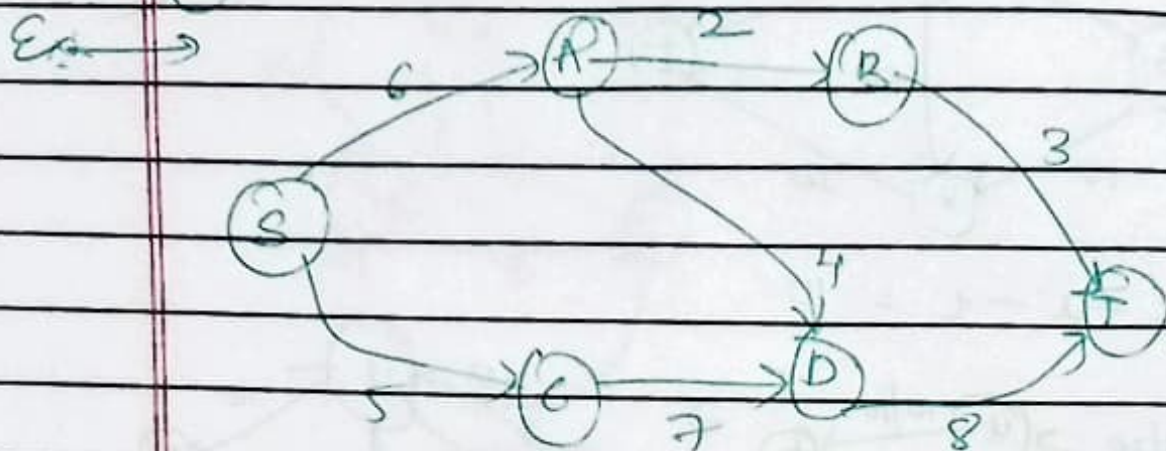
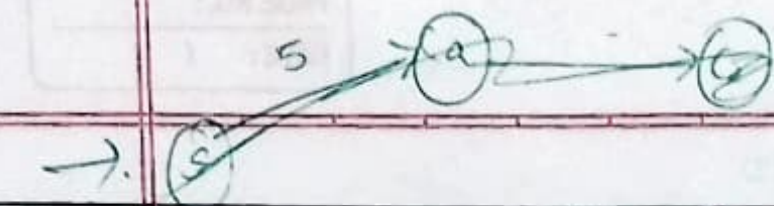
$$s \rightarrow v \rightarrow t = 10$$



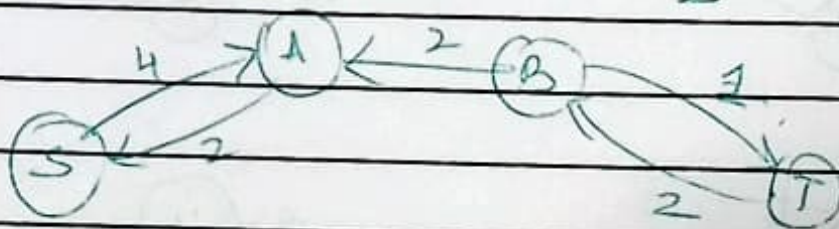
$$s \rightarrow u \rightarrow v \rightarrow t = 10$$



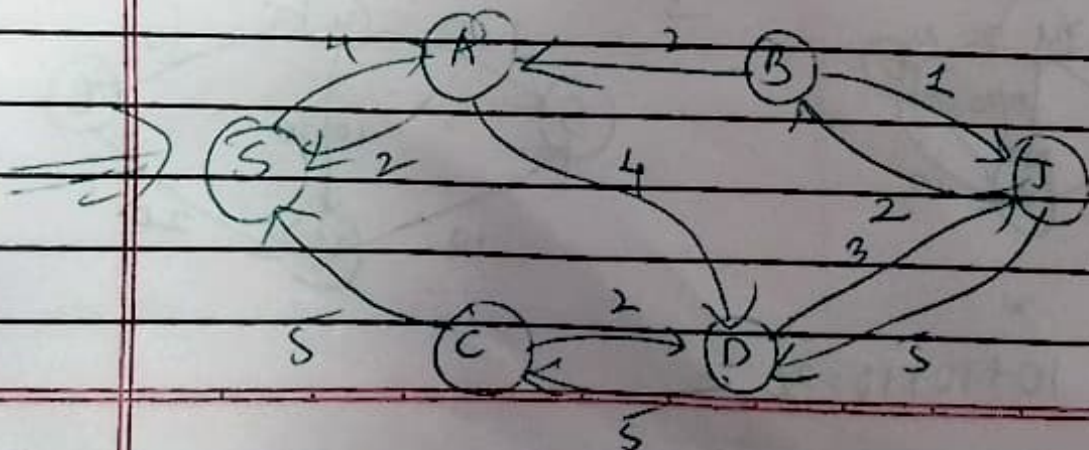
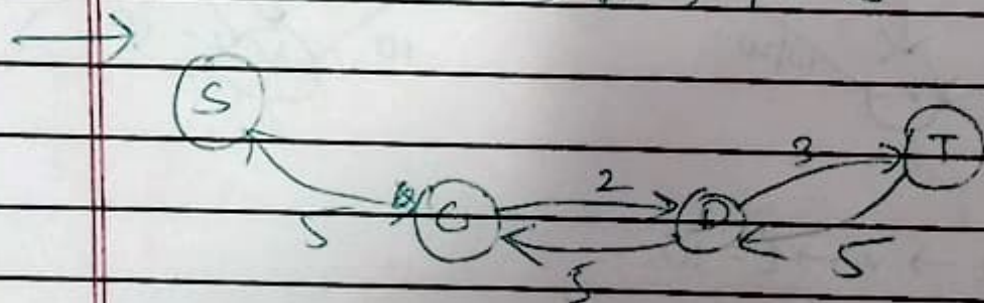
$$|f| = 10 + 10 + 10 = 30$$



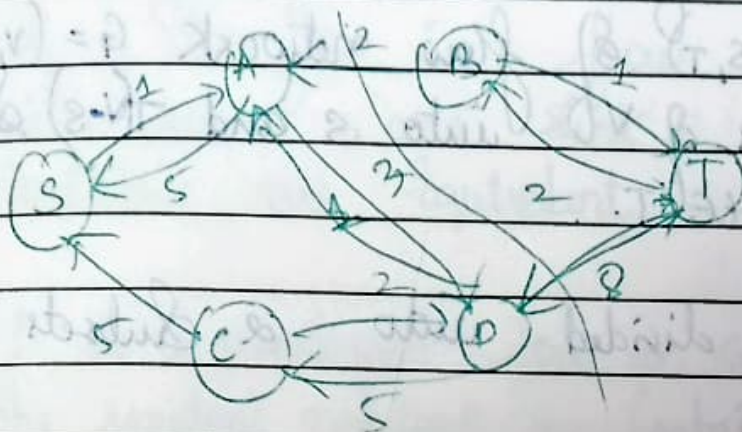
→. $S \rightarrow A \rightarrow B \rightarrow T = 2$



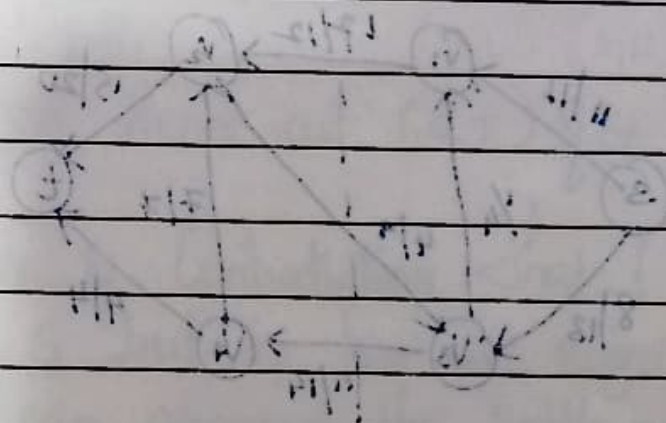
$S \rightarrow C \rightarrow D \rightarrow T = 5$



→ $S \rightarrow A \rightarrow D \rightarrow T$ cost 3



$$|f| = 2 + 5 + 3 = 10$$



$$P1 = |8|$$

$$P2 = |8|$$

$$P3 = |8|$$

$$P4 = |8|$$

$$P5 = |8|$$