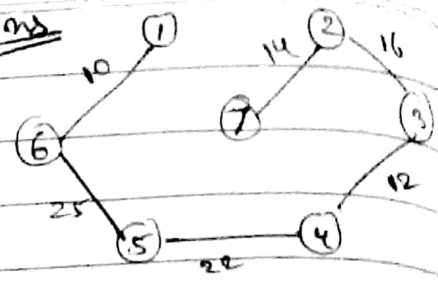


Ans



Min. weight = 99

- Select an index first. For this we select (1).
- Select the shortest edge which connects us to the vertex which is not yet there in our traversal. Till all the vertices are selected.

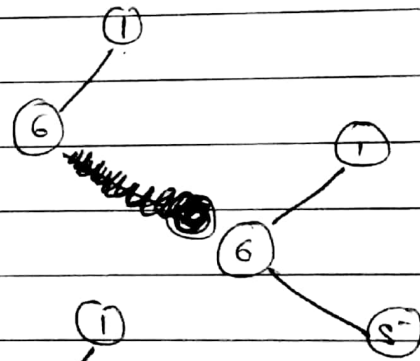
Vertices considered

Traversal

① Edges : 28, 10

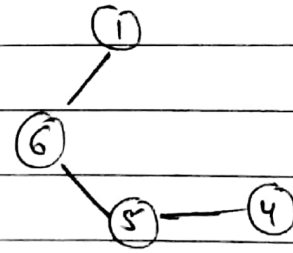
①

⑥ ① — 10 — ⑥
Edges : 25, 28

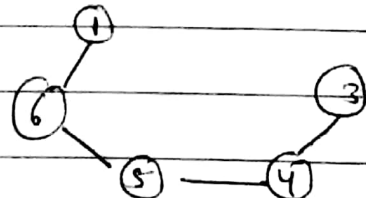


⑤ ⑤ — 25 — ⑥
Edges : 28, 24, 22

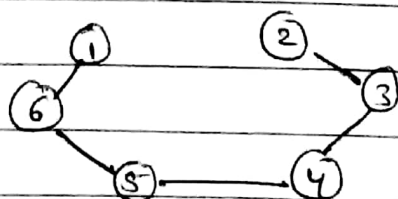
④ ⑤ — 22 — ④
Edges : 28, 24, ~~18~~, 12



③ ④ — 12 — ③
Edges : 28, 24, 18, 16



② ③ — 16 — ②



⑦ ⑦ — 14 — ②

Minimum Span Tree :

Minimum weight :

$$10 + 25 + 22 + 12 + 16 + 14 = 99$$

