① Tree - Traverse :

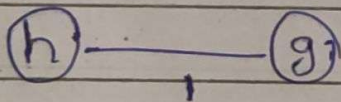Inorder → A - C / 5 * 2 + D * 5 % 4

preOrder → + - A * / C 5 2 % * D 5 4
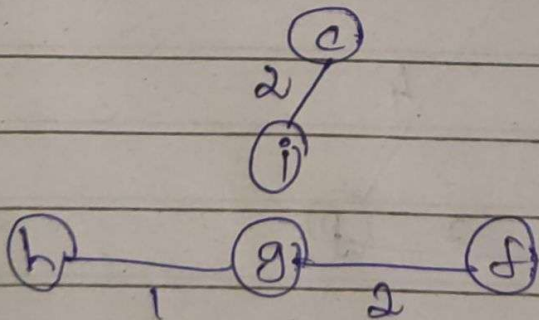
postorder → A C 5 / 2 * - D 5 * 4 % +

② Kruskal's Algorithm:
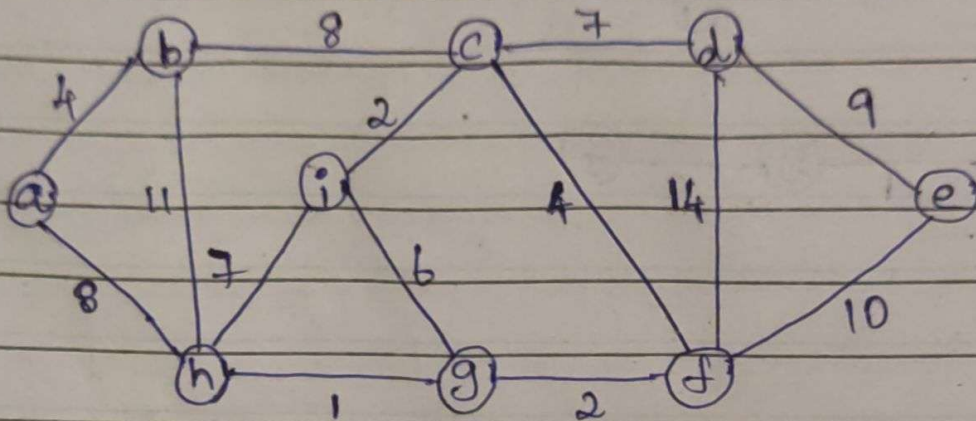
No. of. Edges = No. of. vertices −1
(MST)

Step −①
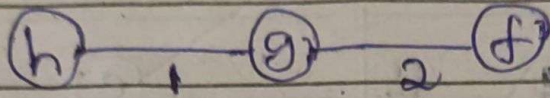

Step −②

Step - ③
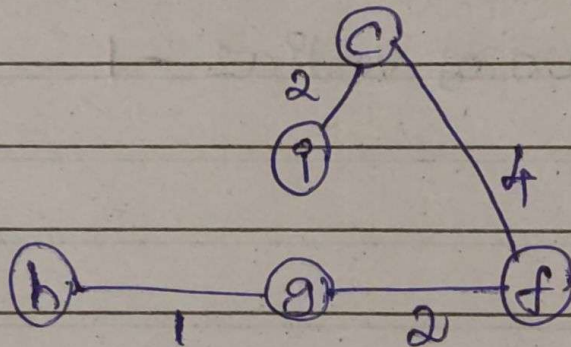
4 — (b)   2 — (c)
(a)   (i)

(h) —— 1 —— (g) —— 2 —— (f)

step - ④

4 — (b)

(a)   (c)
            2 ∕   ＼ 4
          (i)   ＼
                    (f)
(b) —— 1 —— (g) —— 2 —— (f)

step - ⑤

(b)   (c) —— 7 —— (d)
4 ∕   2 ∕   ＼
(a)   (i)   ＼ 4
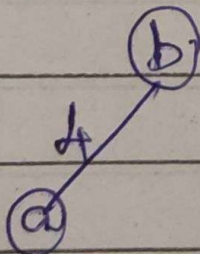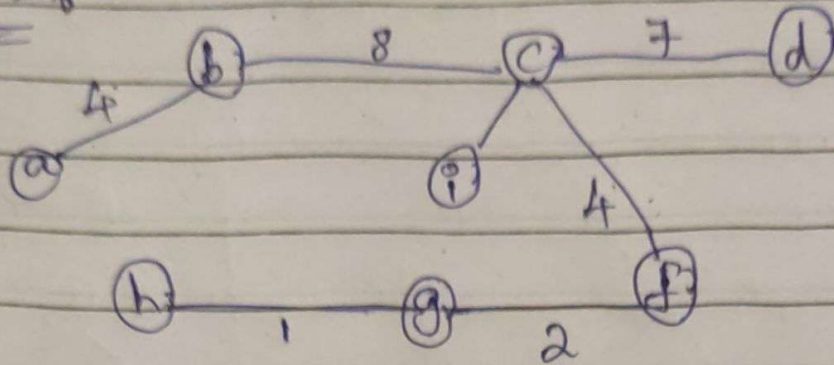   ＼
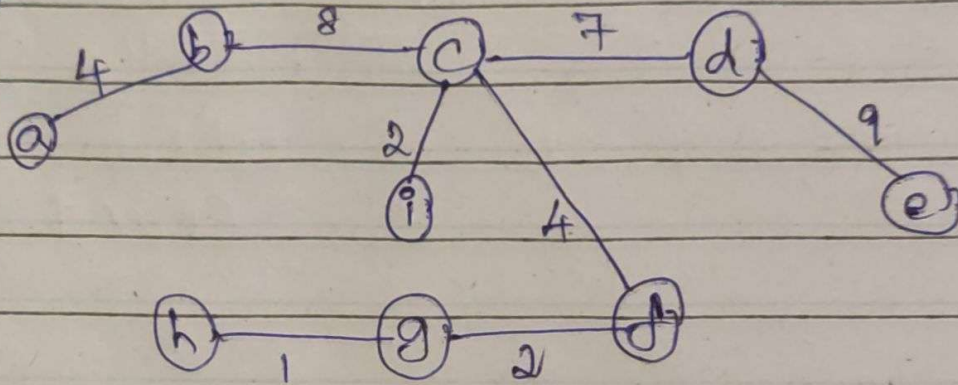(h) —— 1 —— (g) —— 2 —— (f)
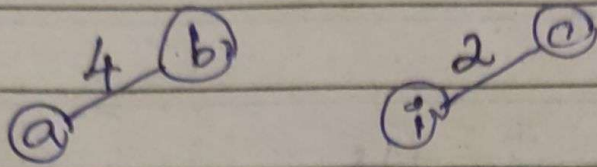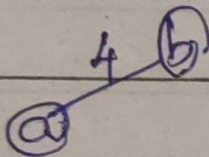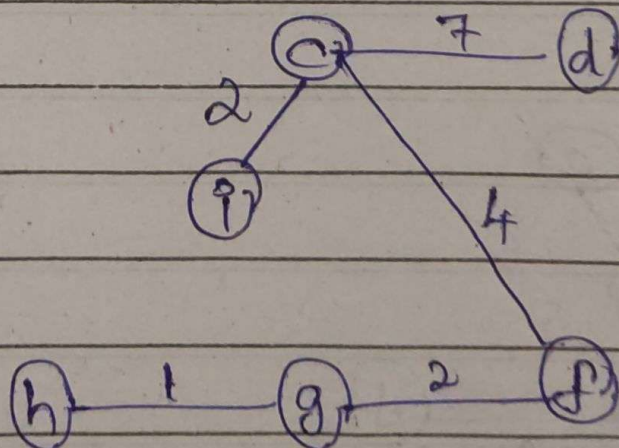
Step - 6

Step - 7

Total weight of Spanning Tree is

$$= 4 + 8 + 2 + 4 + 7 + 9 + 1 + 2$$

$$= \boxed{37}$$