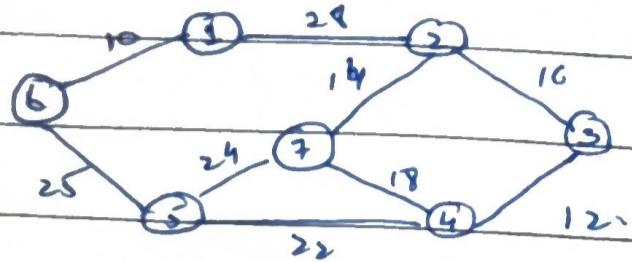


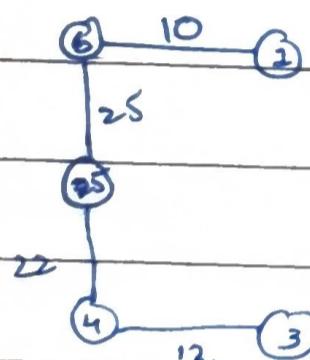
ASSIGNMENT NO. 1

SAP. 60199.



$$\begin{aligned} & \times (6,1) \rightarrow 10 \\ & \times (6,5) \rightarrow 25 \\ & \cancel{\times (6,5) \rightarrow 25} \end{aligned}$$

Preorder ( Root )



$$(\text{cycle}) \times (1,2) \rightarrow 28$$

$$(\text{cycle}) \times (5,7) \rightarrow 24$$

$$\times (5,4) \rightarrow 22$$

$$(\text{cycle}) \times (4,7) \rightarrow 18$$

$$\times (4,3) \rightarrow 12$$

$$\times (3,2) \rightarrow 16$$

Post order (

4 6 7 5 )

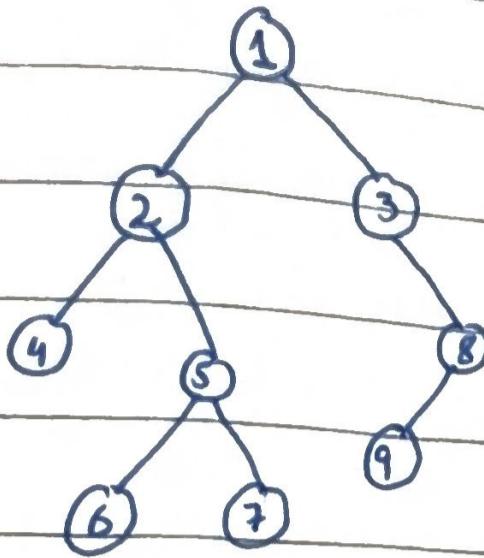
Hence

$$\times (7,2) \rightarrow 14$$

$$\text{MST is } = 10 + 25 + 22 + 12 + 16 + 14 = 99.$$

In order (

4 2 6 5 )



Preorder ( Root, left, right ).

1 2 4 5 6 7 5 3 8 9

Post order ( left right root )

4 6 7 5 2 9 8 3 1

In order ( left. root right ).

4 2 6 5 7 1 3 9 8