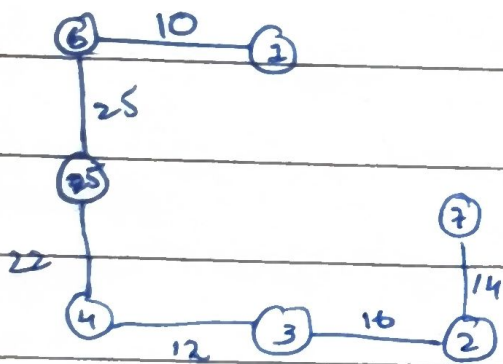
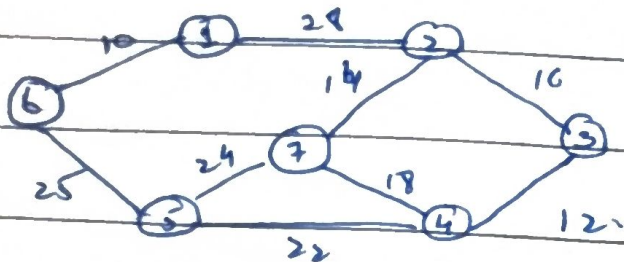


# ASSIGNMENT NO. 1

SAR, 60, 99.



$$\begin{aligned} \times (6,1) &\rightarrow 10 \\ \times (6,5) &\rightarrow 25 \\ \times (6,3) &\rightarrow 28 \end{aligned}$$

$$(cycle) \times (1,2) \rightarrow 28$$

$$(cycle) \times (5,7) \rightarrow 24$$

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

$$(cycle) \times (4,7) \rightarrow 18$$

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

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

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

Hence

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

Pre order (Root)

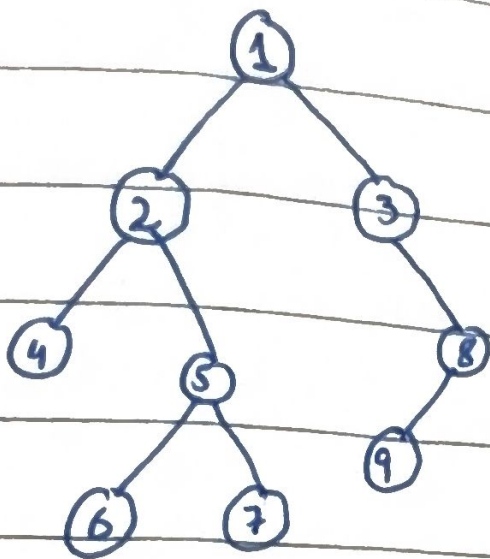
1 2 4 5 6 7

Post order (

4 6 7 5 2

In order (

4 2 6 5



Preorder (Root, left, right).

1 2 4 5 6 7 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