BSCPE2-1

Give the formal description of the directed graph below.

| Ysmael R. Trias Ur. |
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| BSCPE 2-1 |
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| Give the formal description of the directed graph below. |
| |
| 10, 3 |
| 3 |
| |
| |
| $\checkmark G_q = (V_q, E_q)$ $\checkmark V_q = \{1, 2, 3, 4, 5, 6\}$ |
| \checkmark Eq = $\{(1,2), (1,5), (2,1), (2,4), (5,4$ |
| (5,6), (6,1), (6,3) |
| ✓ Indegree of: ✓ Outdegree of: |
| is 2 is 2 |
| 2 is 1 2 is 2 |
| 3 is 1 3 is 0 |
| 4 is 2 4 is 0 |
| 5 is 1 |
| 6 is 1 |

Vertices adjacent to, adjacent from and incident to nodes 1, 2, 3, 4, 5, and 6.

```
✓ Vertices adjacent to node 1: 2 and 6

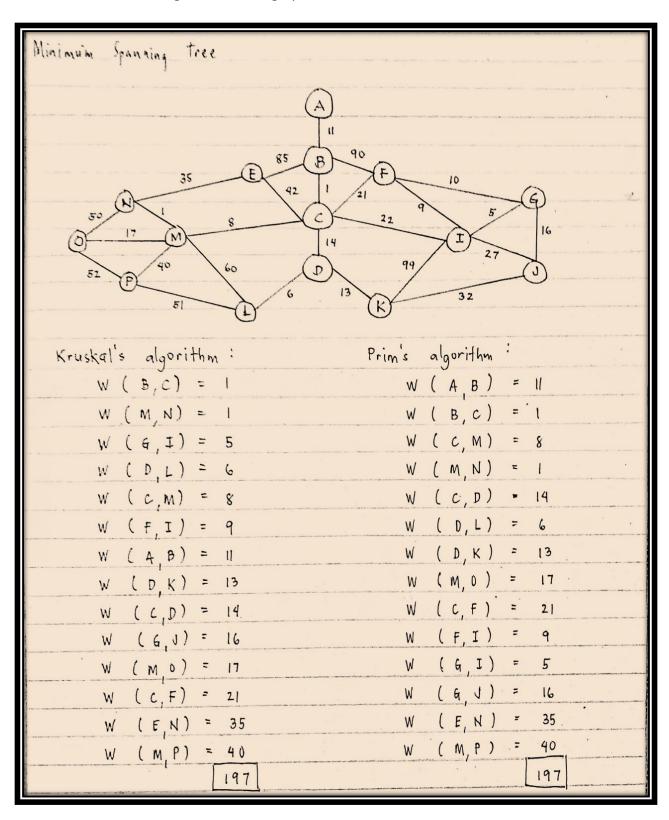
      Vertices adjacent from node 1: 2 and 5
   Edges incident to node 1 : (1,2), (2,1), (1,5), (1,6)
Vertices adjacent to node 2: 1

Vertices adjacent from node 2: 1 and 4

Edges incident to node 2: (1,2)(2,1),(2,4)
Vertices adjacent to node 3: 1

Vertices adjacent from node 3: 0 (None)

Edges incident to node 3: (3,6)
✓ Vertices adjacent to node 4 : 2 and 5
Vertices adjacent from node 4 : 0 (None)
Edges incident to node 4 : (2,4), (4,5)
✓ Vertices adjacent to node 5 : 1
Vertices adjacent from node 5 : 4 and 6
       Edges incident to node 5 : (1,5), (4,5), (5,6)
✓ Vertices adjacent to node 6: 5
Vertices adjacent from node 6: 1 and 3
Edges incident to node 6: (1,6), (3,6), (5,6)
```



Minimum Spanning Tree:

