

* Discrete Mathematics (DM) - Assignment Number - 5

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Class :- Second Year Engineering

Div :- A

Roll Number :-

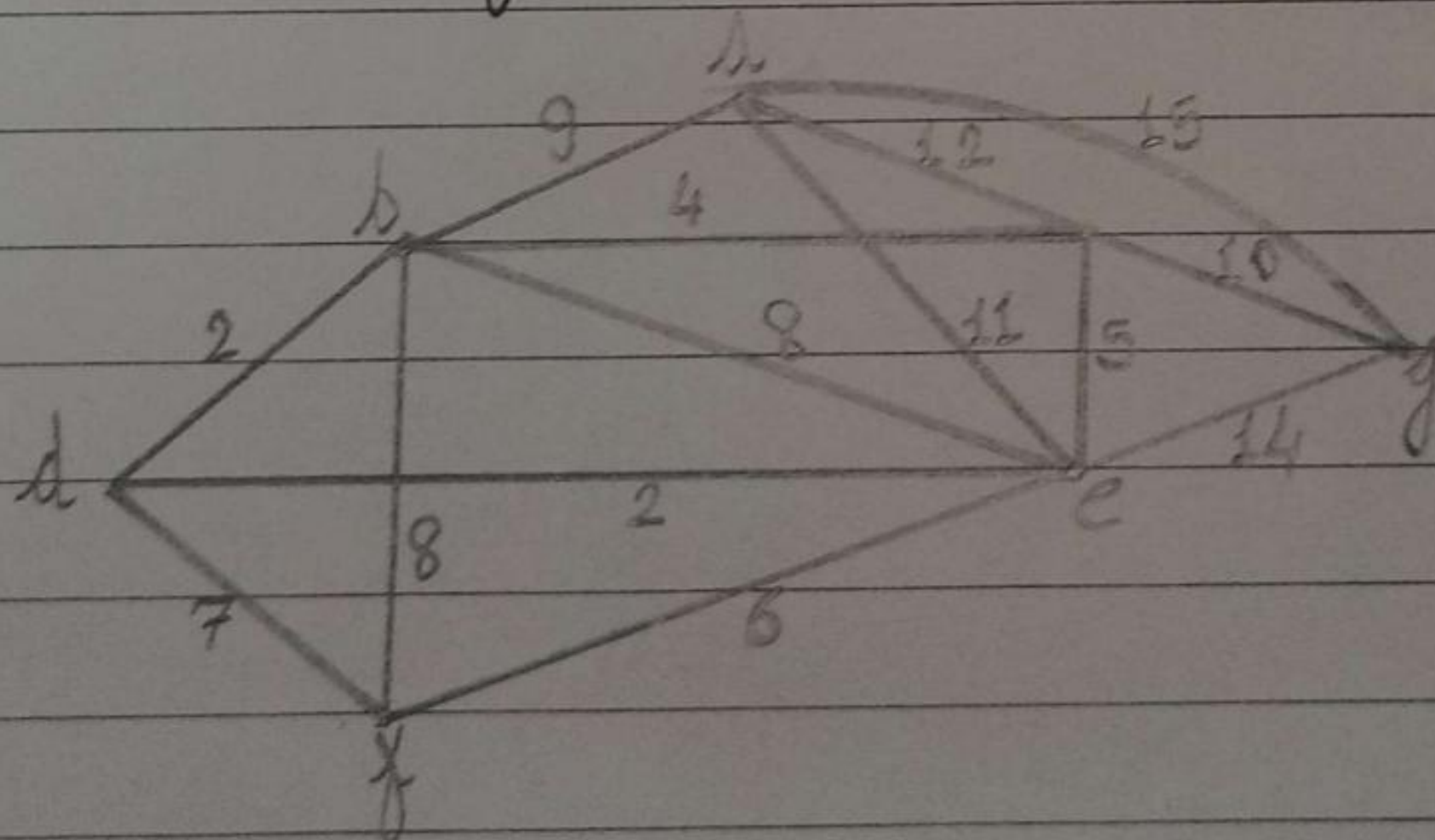
Batch :-

Department :- Computer Department

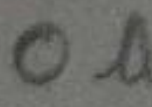
College :- AISSMS's IOIT.

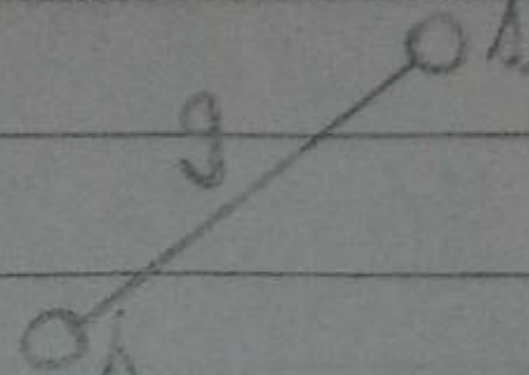
Q-1.

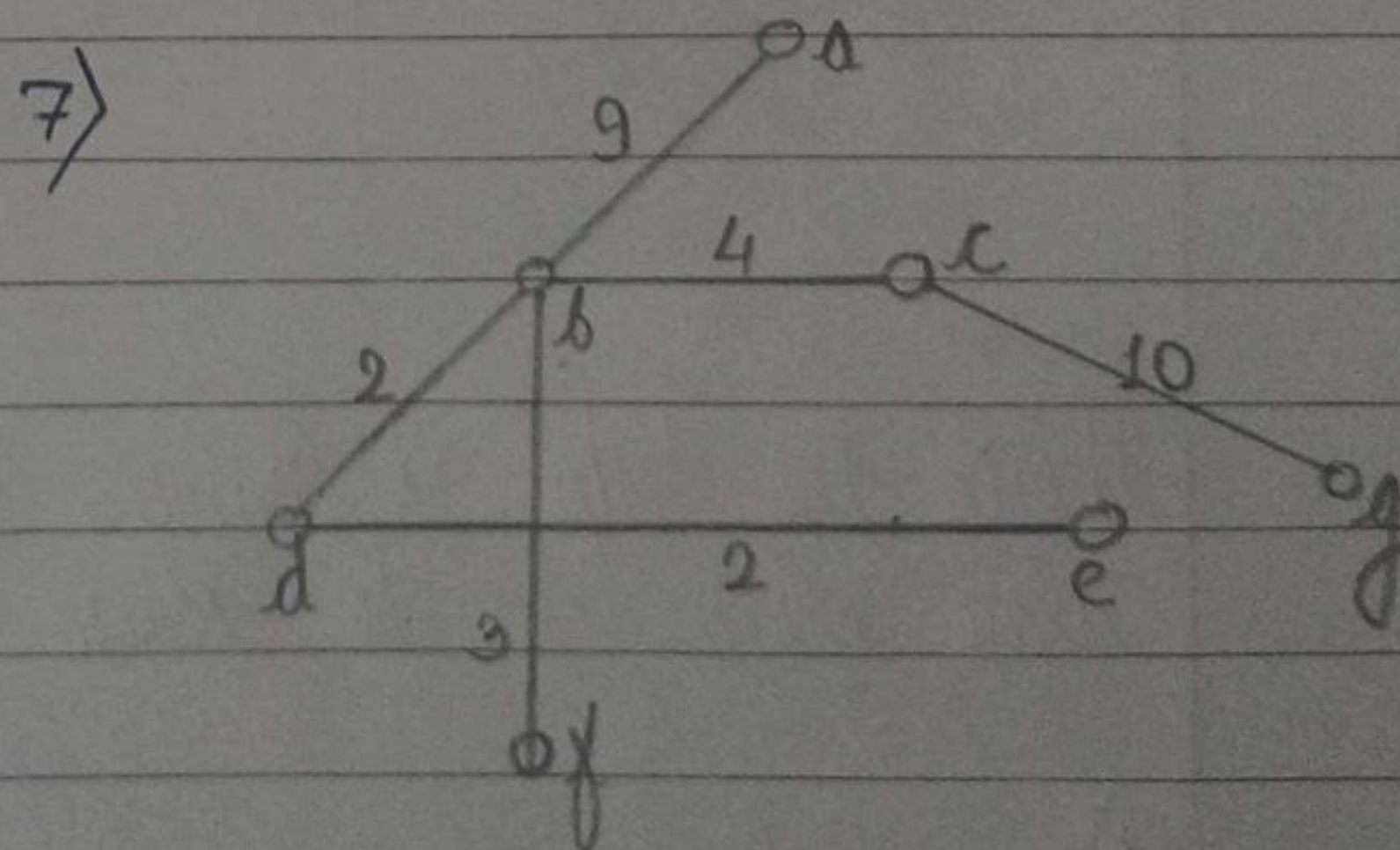
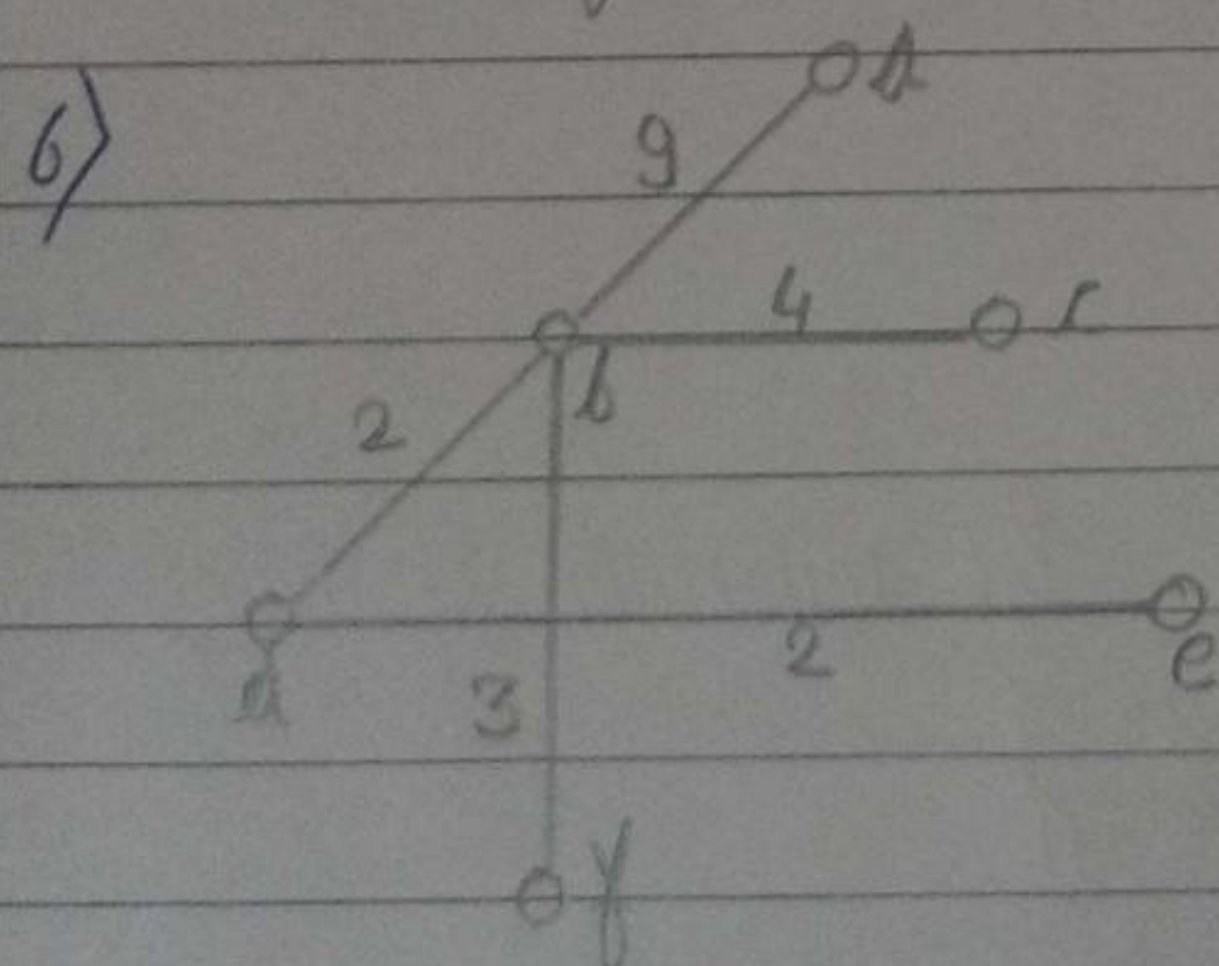
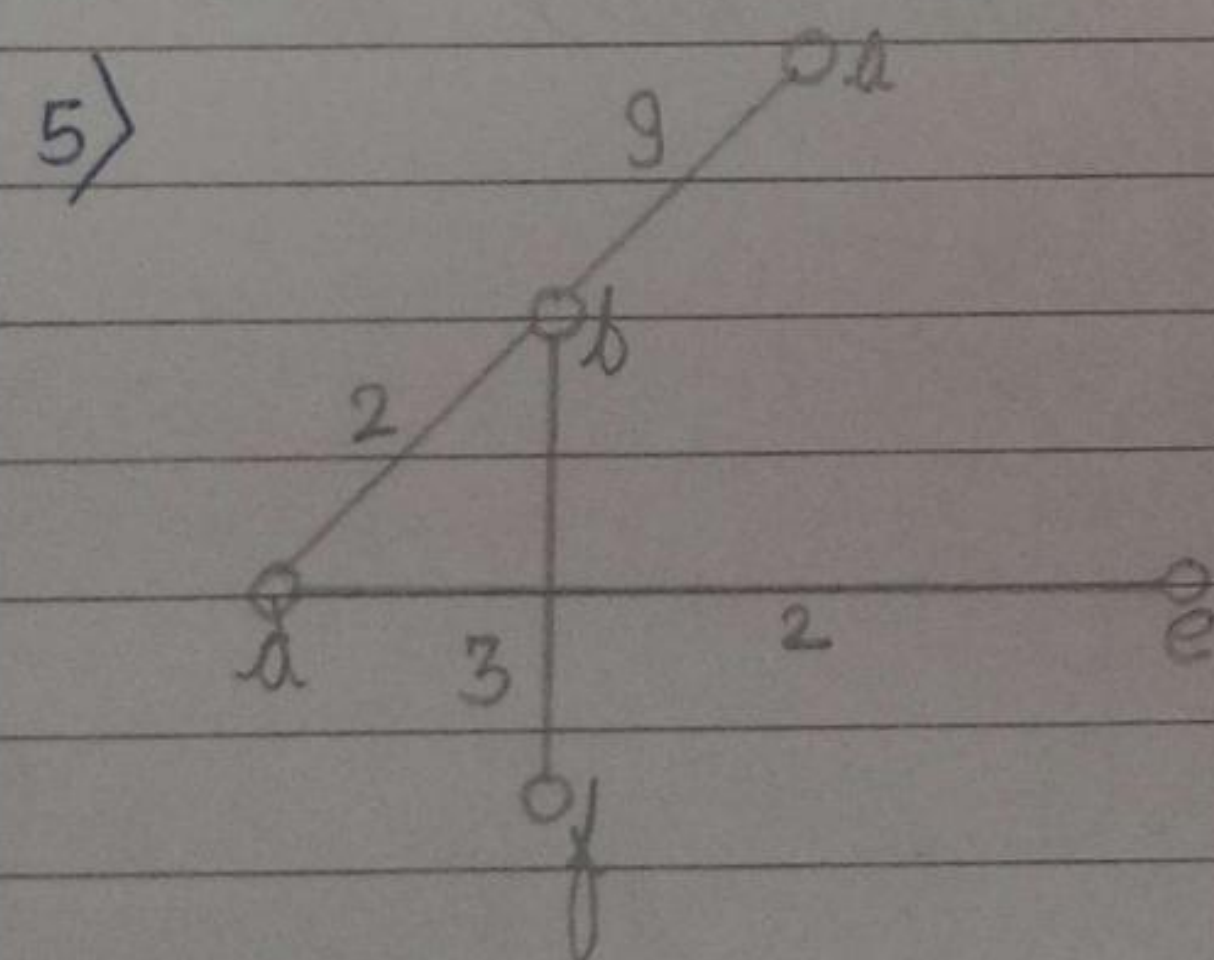
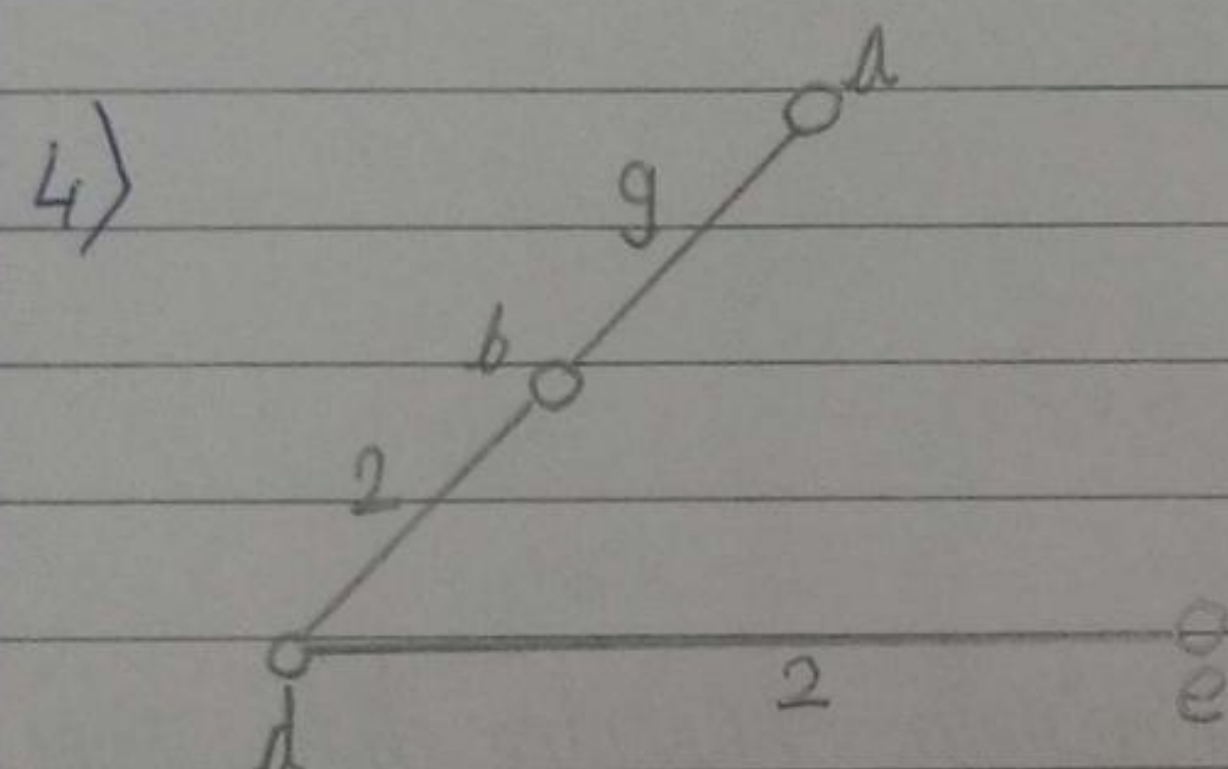
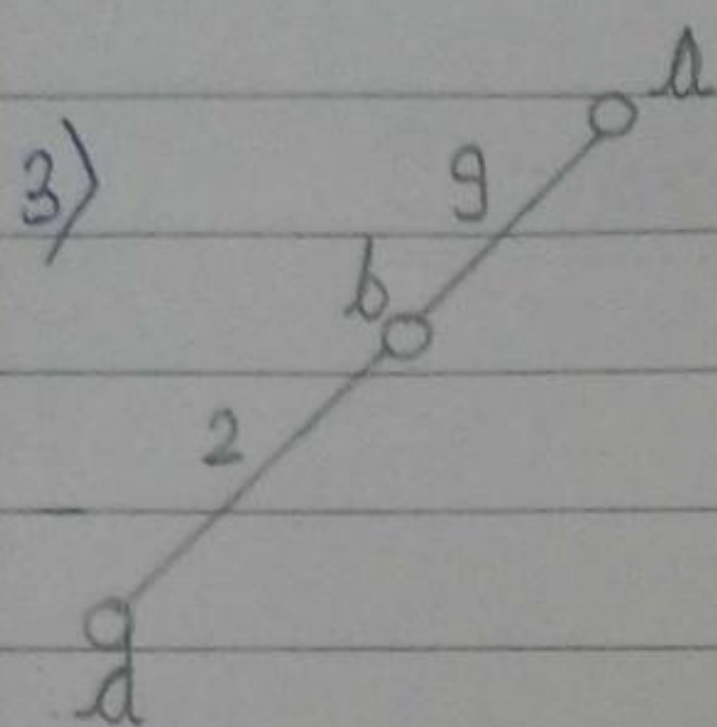
Give the stepwise construction of minimum spanning tree using Prim's algorithm's tree for the following graph. Obtain the total cost of minimum spanning tree.



→ With the help of Prim's algorithm, the minimum spanning tree of the given graph can be obtain following:

1) 

2) 



The graph shown above is minimum spanning tree.

The total cost of minimum spanning tree is 30.