1

Submission III - Set A

- 1. Bt tree will show better performance because range queries are handled better in Bt than B trees. The leaf nodes are linked together in Bt trees. All the records are present at the leaf level. Hence, Bt tree will be faster and efficient for the given task.
 - 2. (b) and(d) are false.

 Minimum key in non-leaf is [6] -1= 2

 Max. data pointers in leaf= 6

3.

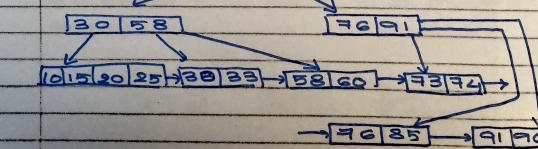
- (a) Delete 75

 Delete 75 directly from the leaf. Its defetion does not violate min keys xeq = [5]-1=2
- (b) Delete 89

 Delete 89 from leaf and index page.

 Take its successor to index page.

13



Delete 78

Delete 78 from most and leaf. Merge node
with 74 with its sibling. Merge the children
of most to one

