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Normalization Formula

Normalization in Exam
The scores of candidates who appeared in the CBT for the post of GET- Mechanical are normalized as the examination was conducted in multiple shifts, to take account any variation in examination paper across the different shifts.
The normalization is done on the basis the below mentioned formula.

Normalization Method
The following data values are calculated for every shift for all the candidates who have appeared in the GET-Mechanical exam:

S2	Standard Deviation of the base shift
S1	Standard Deviation for the candidate's shift (to be scaled to S2)
X	Raw score of a candidate
Xav	Simple average of the candidate's shift
Yav	Average of the base shift

Normalized Score for each candidate (Xn) is

$$Xn = \frac{S2}{S1} * (X - Xav) + Yav$$

Base Shift: Criteria for choosing the base for normalization will be the shift with 'Highest Average' of raw scores. An exception will be made if this shift (with highest average) has far less number of candidates as compared to other shifts. In that case, the next shift with 'highest Average' will be taken as base for normalization.

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