

## Illustrative Example – Normalised Merit List Calculation (using sample data)

The table below demonstrates how the merit list is generated using the normalisation procedure outlined in Clause 18 of the Centralised Admissions Policy. The sample data represents hypothetical candidates from different education boards, with CGPA scores converted to percentages ( $9.5 \times \text{CGPA}$ ) where applicable. Board averages are calculated for Class 10 and Class 12, normalisation factors are applied relative to the UP Board average, and a final merit score is derived as the average of normalised percentile scores for both classes.

Tie-breakers are applied as per the policy.

### Step 1 – Candidate Marks (CGPA converted to % where applicable)

Candidate	Board	Class 10 %	Class 12 %	Notes
Aarav Singh	UP	82.00	78.00	
Bhavna Iyer	CBSE	88.00	84.00	
Cyrus Patel	ICSE	79.00	81.00	
Diya Khan	Other	91.00	86.00	
Esha Roy	CBSE	81.70	83.00	10th CGPA $8.6 \times 9.5$
Farhan Ali	UP	76.00	80.00	
Gita Mehta	Other	72.00	77.90	12th CGPA $8.2 \times 9.5$
Harsh Verma	ICSE	85.00	77.00	

### Step 2 – Calculate Board Averages for Class 10 and Class 12

For each board, take the mean (average) of all candidates' percentages in that class. CGPA scores are already converted to percentages in Step 1.

Board	Avg_10	Avg_12	Notes
CBSE	84.85	83.50	Average of percentage scored by Bhavna and Esha

ICSE	82.00	79.00	Average of percentage scored by Cyrus and Harsh
UP	79.00	79.00	Average of percentage scored by Aarav and Farhan
Other	81.50	81.95	Average of percentage scored by Diya and Gita

### Step 3 – Derive Normalisation Factors (vs UP Board Average)

Normalisation Factor = Board Average ÷ UP Board Average for the same class.

UP Board is the base with a factor of 1.0000 for both classes.

Board	NormFactor_10_vsUP	NormFactor_12_vsUP
CBSE	1.0741	1.0570
ICSE	1.0380	1.0000
UP	1.0000	1.0000
Other	1.0316	1.0373

### Step 4 – Compute Normalised Percentiles and Merit Score

Normalised Percentile (Class X or XII) = Candidate's Percentage ÷ Normalisation Factor for their board.

Merit Score = Average of Class 10 and Class 12 Normalised Percentiles.

Candidate	Board	Class10_percent	Class12_percent	NormPct_10	NormPct_12	MeritScore
Diya Khan	Other	91.0	86.0	88.2086	82.9042	85.5564
Bhavna Iyer	CBSE	88.0	84.0	81.9328	79.4731	80.7029
Aarav Singh	UP	82.0	78.0	82.0	78.0	80.0
Harsh Verma	ICSE	85.0	77.0	81.8902	77.0	79.4451
Cyrus Patel	ICSE	79.0	81.0	76.1098	81.0	78.5549

Farhan Ali	UP	76.0	80.0	76.0	80.0	78.0
Esha Roy	CBSE	81.7	83.0	76.0672	78.5269	77.2971
Gita Mehta	Other	72.0	77.9	69.7914	75.0958	72.4436