



## **Document on Normalization for M. Planning (Integrated) CET - 2024**

**Percentile Scores:** Percentile scores are scores based on the relative performance of all the Candidates who appear for the CET Examination. Basically, the marks obtained are transformed into a scale ranging from 100 to 0 for whole examination conducted in single Batch/shift using single Question Paper of all the examinees appearing for the said CET Examination.

The Percentile Score indicates the percentage of the candidates who have appeared for CET who have scored EQUAL TO OR BELOW (same or lower raw scores) in that examination. Therefore, the topper (highest score) of each CET Examination conducted in single shift will get the same Percentile of 100 which is desirable. The marks obtained in between the highest and lowest scores are also converted to appropriate Percentiles.

The Percentile score of a Candidate Appearing for the CET conducted in the single shift will be calculated is calculated using the following formula: **Percentile Scores:** Percentile scores are scores based on the relative performance of all those who appear for the examination. Basically, the marks obtained are transformed into a scale ranging from 100 to 0 for each session of examinees.

**The Percentile Scores will be calculated up to 7 decimal places to avoid bunching effect and reduce ties.**

**The Percentile score of a Candidate is calculated as follows:**

$$\frac{100 * (\text{No. of candidates appeared in the session with raw score} \leq \text{the candidate's Score})}{\text{Total no. of candidates in the session}}$$

**Note: The Percentile of the Total shall NOT be an aggregate or average of the Percentile of individual subject. Percentile score is not the same as percentage of marks obtained.**

**STEP-BY-STEP PROCEDURE FOR NORMALIZATION AND PREPARATION OF PERCENTILE SCORE:**

**Step-1: Preparation of Results:** The examination results for the session would be prepared in the form of

- Raw Scores
- Percentiles Scores separately for each of the three subjects (Physics, Chemistry and Mathematics) and the Total.

$$\text{Total Percentile (T1P)} = 100 \times \frac{\text{No. of candidates appeared from the session with raw score equal to or less than T1 score}}{\text{Total no of candidates appeared in the session}}$$

$$\text{Physics Percentile (P1P)} = 100 \times \frac{\text{No. of candidates appeared from the session with raw score equal to or less than P1 score in Physics}}{\text{Total no of candidates appeared in the session}}$$

$$\text{Chemistry Percentile (C1P)} = 100 \times \frac{\text{No. of candidates appeared from the session with raw score equal to or less than C1 score in Chemistry}}{\text{Total no of candidates appeared in the session}}$$

$$\text{Mathematics Percentile (M1P)} = 100 \times \frac{\text{No. of candidates appeared from the session with raw score equal to or less than M1 score in Mathematics}}{\text{Total no of candidates appeared in the session}}$$

The Percentile will be calculated separately for the Total raw score and the raw scores in three subjects (Physics, Chemistry and Mathematics) as follows:

Roll Number	Physics		Chemistry		Mathematics		PCM Total	
	Raw Score	Percentile	Raw Score	Percentile	Raw Score	Percentile	Raw Score	Percentile
D1 B1-01	38	89.2841263	30	100.0000000	86	99.9555358	154	100.0000000
D1 B1-02	45	100.0000000	26	99.0217875	83	98.9773233	154	100.0000000
D1 B1-03	45	100.0000000	22	92.0409071	86	99.9555358	153	99.9119718
D1 B1-04	45	100.0000000	22	92.0409071	86	99.9555358	153	99.9119718
D1 B1-05	45	100.0000000	26	99.0217875	82	98.7105380	153	99.9119718
↓	↓	↓	↓	↓	↓	↓	↓	↓
↓	↓	↓	↓	↓	↓	↓	↓	↓
↓	↓	↓	↓	↓	↓	↓	↓	↓
D1 B1-2244	3	3.5571365	2	6.8030236	2	2.4010671	7	1.3644366
D1 B1-2245	2	2.4455313	0	1.2449978	3	2.8012450	5	1.2323944
D1 B1-2246	1	1.7341040	0	1.2449978	3	2.8012450	4	1.1883803
D1 B1-2247	0	0.3112494	2	6.8030236	0	0.5780347	2	1.1443662
D1 B1-2248	0	0.3112494	1	2.7567808	0	0.5780347	1	1.1003521
D1 B1-2249	1	1.7341040	0	1.2449978	0	0.5780347	1	1.1003521

**NOTE: The roll numbers and scores provided in the table are only for representational purpose only.**