GOVERNMENT OF MAHARASHTRA
State Common Entrance Test Cell

Document on Normalization for MH- DPN/PHN

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:

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

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 both the subjects (Based on GNM & Basic BSc Nursing Syllabus & English) and the Total.

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

$$\text{GNM \& Nursing Percentile (N1P)} = 100 \times \frac{\text{No. of candidates appeared from the session with raw score equal to or less than N1 score in Nursing}}{\text{Total no. of candidates appeared in the session}}$$

$$\text{English Percentile (E1P)} = 100 \times \frac{\text{No. of candidates appeared from the session with raw score equal to or less than E1 score in English}}{\text{Total no. of candidates appeared in the session}}$$

Roll Number	GNM & c BSc Nursing		English		DPN/PHN Total	
	Raw Score	Percentile	Raw Score	Percentile	Raw Score	Percentile
D1 B1-01	17	89.2841263	18	99.9555358	35	100.0000000
D1 B1-02	18	100.0000000	16	98.9773233	34	99.9962814
D1 B1-03	18	100.0000000	15	98.7105380	33	99.9119718
D1 B1-04	18	100.0000000	15	98.7105380	33	99.9119718
D1 B1-05	18	100.0000000	14	97.7105380	32	99.9075764
↓	↓	↓	↓	↓	↓	↓
↓	↓	↓	↓	↓	↓	↓
↓	↓	↓	↓	↓	↓	↓
D1 B1-2244	3	3.5571365	2	2.4010671	5	1.3644366
D1 B1-2246	1	1.7341040	3	2.8012450	4	1.1883803
D1 B1-2247	0	0.3112494	0	0.5780347	0	1.1443662
D1 B1-2248	0	0.3112494	0	0.5780347	0	1.1443662

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