

### 3.a Combined Performance in Public and University Examinations (PUE) – 20 Marks

Assessment in respect of Public examinations will be based on cumulative percentile of students (as a fraction of the number appearing) qualifying in Public examinations (such as UPSC conducted, State Government, GATE, NET, CAT etc.) from an institution, out of the cumulative number of successful students in that year. An effort should be made to connect with examination conducting agencies to prepare institute wise data.

Assessment in respect of University examinations will be based on the percentage of students clearing/complying with the degree requirements in the minimum graduation time. Data will be obtained from the Universities or the concerned colleges.

$$\mathbf{PUE = (PE + UE)}$$

Here,

$$\text{Public Examinations (PE)} \quad = 0.5 \text{ Marks}$$

$$\text{University Examinations (UE)} \quad = 15 \text{ Marks}$$

For Public Examinations, we first calculate the percentile parameter  $\mathbf{p}$  as follows:

Let,  $\mathbf{f_i}$  be the fraction of successful students from a given institution (ratio of the number of successful and the number of appearing) for examination  $\mathbf{i}$ .

$\mathbf{f_i = 0}$ , when either number of appearing or successful candidates is nil. Let,  $\mathbf{t_i}$  be the toughness parameter of examination  $\mathbf{i}$ .

Then,

$$\mathbf{p = \text{Fraction percentile of } \sum((1 - t_i) f_i)}$$

Where,

$$t_i = \frac{\text{(Number of successful candidates in examination } i \text{)}}{\text{(Number of candidates appearing in examination } i \text{)}}$$

Cumulative data is thus weighted across different examinations according to their toughness index, which is measured by the ratio of successful candidates to the total number appearing.

**PE = 05 × Cumulative percentile of students from the institution in the cumulative data of Public Examination**

**UE = 15 × (N/80)**

Here,

**N** is the percentage of Students (as a fraction of those admitted for the batch, averaged over the previous three (3) years) graduating in minimum time.

**Benchmark:**

At least 80% students should graduate in minimum time to score maximum Marks.

**Data Collection:**

**PE** data from Examination Boards and bodies.

**UE** data from institutions to be verified on a random sampling basis, but preferably directly from the University examination sections, if possible.