

### 3.b. Combined Performance in Public Examinations (PE) – 50 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, State PSCs, SSC, 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.

Here,

PE = Public Examinations = 50 Marks

For Public Examinations,

we first calculate the percentile parameter  $p$  as follows:

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

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

Then,

**$p =$  Fraction percentile of  $\Sigma((1 - t_i) f_i)$ ,**

Where,

(Number of successful candidates in examination  $i$ )

$t_i =$  (Number of candidates appearing in examination  $i$ )

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 = 50 × Cumulative percentile of students from the institution in the cumulative data of Public Examination**

**Data Collection**

PE data from Public Service Commissions and Examining bodies.