- **Formula to calculate Discrimination Index:**

Arrange the data in deceasing order as per the students score.

H=Sum of top 27% students marks/Maximum marks

L=Sum of bottom 27% students marks/Maximum marks

Discrimination Index DI=(H-L)/Count of how many students comes in 27%

Interpretation of Discrimination Index

Range	Verbal Description
.40 & above	Very Good Item
.30 - .39	Good Item
.20 - .29	Fair Item
.09 - .19	Poor Item

- **Formula to calculate Attainment Level:**

Calculate **Percentage (x)** of number of students who scored >= 50% marks out of relevant maximum marks.
Set range of x using following criteria:

Range 0 : Set Attainment Level =0 to 0.99 if 0% to 59.99% of total students scored >= 50% marks out of relevant maximum marks.

Range 1: Set Attainment Level =1 to 1.99 if 60% to 69.99% of total students scored >= 50% marks out of relevant maximum marks.

Range 2: Set Attainment Level =2 to 2.99 if 70% to 79.99 % of total students scored >= 50% marks out of relevant maximum marks.

Range 3: Set Attainment Level =3 if 80% to 100% of total students scored >= 50% marks out of relevant maximum marks.

Look up table for same is as below:

Lookup Table			
% Students Successful	Attainment Level	% Students Successful	Attainment Level
60	1	71	2.1
61	1.1	72	2.2
62	1.2	73	2.3
63	1.3	74	2.4
64	1.4	75	2.5
65	1.5	76	2.6
66	1.6	77	2.7
67	1.7	78	2.8
68	1.8	79	2.9
69	1.9	80	3
70	2		