BLUE PRINT OF ACHIEVMENT TEST(SCIENCE)

TABLE NO. 1. WEIGHTAGE TO OBJECTIVES

S.NO.	OBJECTIVES	MARKS	PERCENTAGE
1.	Knowledge	10	50%
2.	Understanding	6	30%
3.	Application	4	20%
	Total	20	100%

TABLE NO. 2. WEIGHTAGE TO CONTENT

S.NO.	CONTENT	MARKS	PERCENTAGE
1.	Sound	10	50%
2.	Some Natural Phenomena	10	50%
	Total	20	100%

TABLE NO. 3. WEIGHTAGE TO FORM OF QUESTIONS

S.NO.	Form of questions	No. of questions	Marks	Percentage
1.	Fill in the blanks	5	5	25%
2.	MCQ's	5	5	25%
3.	one word Answers	5	5	25%
4.	True And False	5	5	25%
	Total	20		100%

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Table no. 4. WEIGHTAGE TO DIFFICULTY LEVEL.

S.No.	FORM OF QUESTIONS	MARKS	PERCENTAGE
1.	EASY	6	30%
2.	AVERAGE	12	60%
3.	DIFFICULT	2	10%
	Total	20	100%

FINAL BLUE PRINT (SCIENCE)

S.No.	CONTENTS	KNOWLEDGE	UNDERSTANDING		APPLICATION	TOTAL
		F/B	O/W	T/F	MCQ	
1.	SOUND	3	3	2	2	10
2.	SOME NATURAL PHENOMENA	2	2	3	3	10
SUB TOTAL		5	5	5	5	20
TOTAL		5	5	5	5	20

F/B – Fill in the blanks.

O/W – one word answers.

T/F – True and False.

MCQ – Multiple choice Questions.

BLUE PRINT OF ACHIEVEMENT TEST (ENGLISH)

TABLE NO. 1 - WEIGHTAGE TO OBJECTIVES

S.No.	OBJECTIVES	MARKS	PERCENTAGE
1.	Knowledge	8	40%
2.	Understanding	8	40%
3.	Application	4	20%
	TOTAL	20	100%

TABLE NO. 2. - WEIGHTAGE TO CONTENT

S.No.	CONTENT	MARKS	PERCENTAGE
1.	A different kind of School, where do all Teachers Go.	10	50%
2	The Banyan Tree	10	50%
	TOTAL	20	100%

TABLE NO. 3- WEIGHTAGE TO FORM OF QUESTIONS

S.No	Forms of questions.	No. of questions.	Marks	Percentage
1.	Fill in the blanks	5	5	25%
2.	MCQ's	5	5	25%
3.	one word Answers	5	5	25%
4.	True and False	5	5	25%
	TOTAL	20	20	100%

TABLE NO. 4. WEIGHTAGE TO DIFFICULTY LEVEL

S. NO.	FORM OF QUESTIONS	MARKS	PERCENTAGE
1.	EASY	6	30%
2.	AVERAGE	12	60%
3.	DIFFICULT	2	10%.
	TOTAL	20	100%

FINAL BLUE PRINT (ENGLISH)

S.No.	CONTENT	KNOWLEDGE	UNDERSTANDING		APPLICATION	TOTAL
		F/B	O/W	T/F	MCQ	
1.	A different kind of school, where do all Teachers go.	3	2	3	2.	10
2.	The Banyan Tree	2	3	2	3	10
SUB-TOTAL		5	5	5	5	20
TOTAL		5	5	5	5	20

F/B - Fill in the blanks

O/W - One word answers

T/F - True and False

MCQ - Multiple choice questions.

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MERIT LIST OF STUDENTS

SUBJECT :- SCIENCE CLASS :- 9th

S.NO.	STUDENT NAME	MARKS	PERCENTAGE
1.	RIYA GUPTA	18	90%.
2.	JIYA GUPTA	19	95%.
3.	SANVI PRIYA	15	75%.
4.	NANDANI KUMARI	16	80%.
5.	SNEHA KUMARI	11	55%.
6.	FAZILAT	10	50%.
7.	ANJALI KUMARI	11	55%.
8.	PRIYANKA KUMARI	9	45%.

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ITEM ANALYSIS

DIFFICULTY VALUE OF THE ITEMS-

$$DV = \left(\frac{H+L}{2N}\right) \times 100$$

Accepted Range = 25% – 75%

H = Number of Response in the hight Achievers

L = Number of Response in the low Achievers group who gave correct answers.

N = Number of student in each group.

* Less than 25% mean the item is very difficult.
* More than 75% mean the item is very easy.

DISCRIMINATION INDEX

$$D.I = \frac{H-L}{2N}$$

Accepted Range = (0.2–0.8)

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TABLE 2. SHEET WITH LOWER LIMIT (LOW ACHIEVERS)

S.NO.	NAME OF STUDENTS	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	TOTAL
1.	ANJALI KUMARI	✓	×	✓	×	✓	×	✓	✓	✓	×	✓	✓	✓	×	×	✓	✓	×	×	×	11
2.	SNEHA KUMARI	✓	×	✓	×	×	✓	✓	×	✓	×	✓	×	×	✓	✓	✓	✓	×	×	✓	11
3.	FAZILAT	×	×	✓	×	✓	×	×	✓	✓	×	✓	×	×	✓	✓	✓	×	✓	×	✓	10
4.	PRIYANKA KUMARI	×	✓	×	✓	×	×	✓	×	×	✓	×	✓	×	×	✓	×	✓	✓	✓	×	9
	TOTAL	2	1	3	1	2	1	3	2	3	1	3	2	1	3	3	3	3	2	1	2	41

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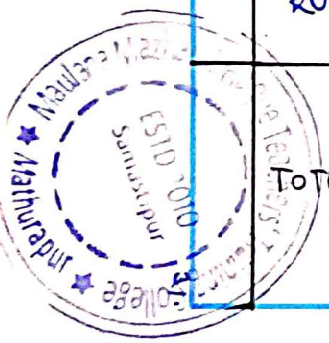
TABLE 1. SHEET WITH UPPER LIMIT (HIGH ACHIEVERS)

S.No	NAME OF STUDENTS	Q1.	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	TOTAL
1.	RIYA GUPTA	✓	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	×	✓	✓	✓	✓	✓	✓	✓	✓	18
2.	JIYA GUPTA	✓	✓	✓	✓	✓	×	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19
3.	SANVI PRIYA	✓	×	✓	✓	✓	✓	✓	✓	✓	×	✓	✓	×	✓	✓	✓	×	✓	✓	×	15
4.	NANDANI KUMARI	✓	✓	✓	✓	✓	×	✓	✓	✓	×	✓	✓	✓	✓	×	✓	✓	✓	×	✓	16
	TOTAL	4	2	4	4	4	2	4	4	4	2	4	3	3	4	3	4	3	4	3	3	68



MERIT LIST OF STUDENTS			
	SUBJECT :- ENGLISH		CLASS :- 9th
S.NO.	STUDENT NAME	MARKS	PERCENTAGE
1.	RIYA GUPTA	16	80%
2.	JIYA GUPTA	10	50%
3.	SANVI PRIYA	15	75%
4.	NANDANI KUMARI	9	45%
5.	SNEHA KUMARI	19	95%
6.	FAZILAT	9	45%
7.	ANJALI KUMARI	15	75%
8.	PRIYANKA KUMARI	12	60%

Dibbicullty value of Questions $\Delta V = \left(\frac{H+L}{2N}\right) \times 100$

Discrimination Power $= \frac{H-L}{N}$

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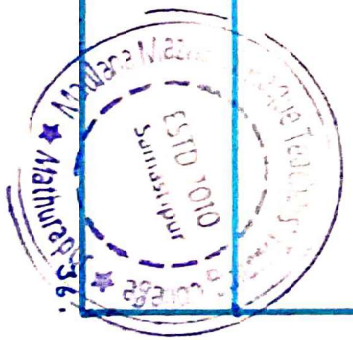
TABLE 1. SHEET WITH UPPER LIMIT (HIGH ACHIEVERS GROUP)

S.NO.	NAME OF STUDENTS	Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9	Q 10	Q 11	Q 12	Q 13	Q 14	Q 15	Q 16	Q 17	Q 18	Q 19	Q 20	TOTAL
1.	SNEHA KUMARI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	19
2.	RIYA GUPTA	✓	✓	✓	X	✓	✓	✓	✓	X	✓	✓	✓	✓	X	✓	✓	X	✓	✓	✓	16
3.	SANVI PRIYA	✓	✓	✓	X	✓	✓	X	✓	✓	✓	✓	X	✓	✓	✓	✓	X	✓	✓	X	15
4.	ANJALI KUMARI	✓	X	✓	✓	✓	✓	✓	✓	X	X	✓	✓	✓	✓	X	✓	X	✓	✓	✓	15
	TOTAL	4	3	4	2	4	4	3	4	2	3	4	3	4	3	3	4	0	4	4	3	65

TABLE NO. 2. SHEET WITH LOWER LIMIT (LOW ACHIEVERS GROUP)

S.No.	NAME OF STUDENTS	Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9	Q 10	Q 11	Q 12	Q 13	Q 14	Q 15	Q 16	Q 17	Q 18	Q 19	Q 20	TOTAL
1.	PRIYANKA KUMARI	✗	✗	✗	✓	✗	✓	✓	✓	✓	✗	✓	✓	✓	✗	✓	✓	✗	✓	✓	✗	12
2.	JIYA GUPTA	✓	✗	✗	✓	✓	✓	✗	✓	✗	✗	✗	✓	✓	✗	✓	✗	✓	✓	✗	✗	10
3.	FAZILAT	✗	✓	✓	✗	✗	✗	✓	✗	✗	✓	✓	✗	✗	✓	✗	✓	✗	✗	✓	✗	9
4.	NANDANI KUMARI	✗	✗	✓	✓	✗	✓	✓	✗	✗	✓	✗	✓	✗	✗	✓	✓	✗	✗	✗	✓	9
	TOTAL	1	1	2	3	1	3	3	2	1	2	2	3	2	1	3	3	1	2	2	1	40



STATISTICAL ANALYSIS

INTRODUCTION :- [MEAN, MEDIAN, MODE]

MEAN :- It is the average of the data.
The total number of student in the achievement test are as follows —

eg — 4 + 5 + 2 + 10 + 11 + 4

$$\text{Mean} = \frac{\text{Sum of Response}}{\text{Total no of Response}} = \frac{36}{6} = 6$$

So, formula is,

$$\text{MEAN} = \frac{\text{Sum of Response}}{\text{Total no. of students}}$$

$$\bar{x} = \frac{\Sigma x}{N}$$

Here,

$\bar{x}$ = Mean

Σx = Sum of Response

N = Total Number of students.

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it is centially located value of a series that half of the items are before it and half are behind it.

Mid value of series is called median.

Number of Responses are even then median is —

$$\text{Median} = \frac{\left(\frac{n}{2}\right)^{th}\text{term} + \left(\frac{n}{2}+1\right)^{th}\text{term}}{2}$$

If the response are odd then median is-

$$\text{Median} = \left(\frac{n+1}{2}\right)^{th}\text{term}$$

MODE :-

It is the value that occures most frequently in a data set or we can also find out by the help of mean and median using this formula.

$$\text{MODE} = 3\,\text{Median} - 2\,\text{mean}$$

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STATISTICAL ANALYSIS OF SCIENCE PAPER IX th

MEAN :-

S.NO	NAME OF STUDENT	SCORES
1.	RIYA GUPTA	18
2.	JIYA GUPTA	19
3.	SANVI PRIYA	15
4.	NANDANI KUMARI	16
5.	SNEHA KUMARI	11
6.	FAZILAT	10
7.	ANJALI KUMARI	11
8.	PRIYANKA KUMARI	9

$$\text{Mean} = \frac{\text{Sum of all Response}}{\text{Total No. of Students}}$$

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$$\text{Mean} = \frac{\Sigma x}{N}$$

$$\text{Mean} = \frac{18+19+15+16+11+10+9}{8}$$

Mean = 12.25

Median :-

Average the data in ascending order

9, 10, 11, 11, 15, 16, 18, 19

Here the no. of items are 8 which is an even no. So,

$$\text{Median} = \frac{\frac{N}{2}\text{th} + \left(\frac{N}{2}+1\right)^{\text{th}}}{2}$$

$$= \frac{4\text{th term} + 5\text{th term}}{2}$$

$$= \frac{11+15}{2} = \frac{26}{2}$$

Meadian = 13

MODE :-

$$\text{Mode} = 3\,\text{median} - 2\,\text{mean}$$

$$= 3 \times 13 - 2 \times 12.5$$

$$= 39 - 25$$

Mode = 14

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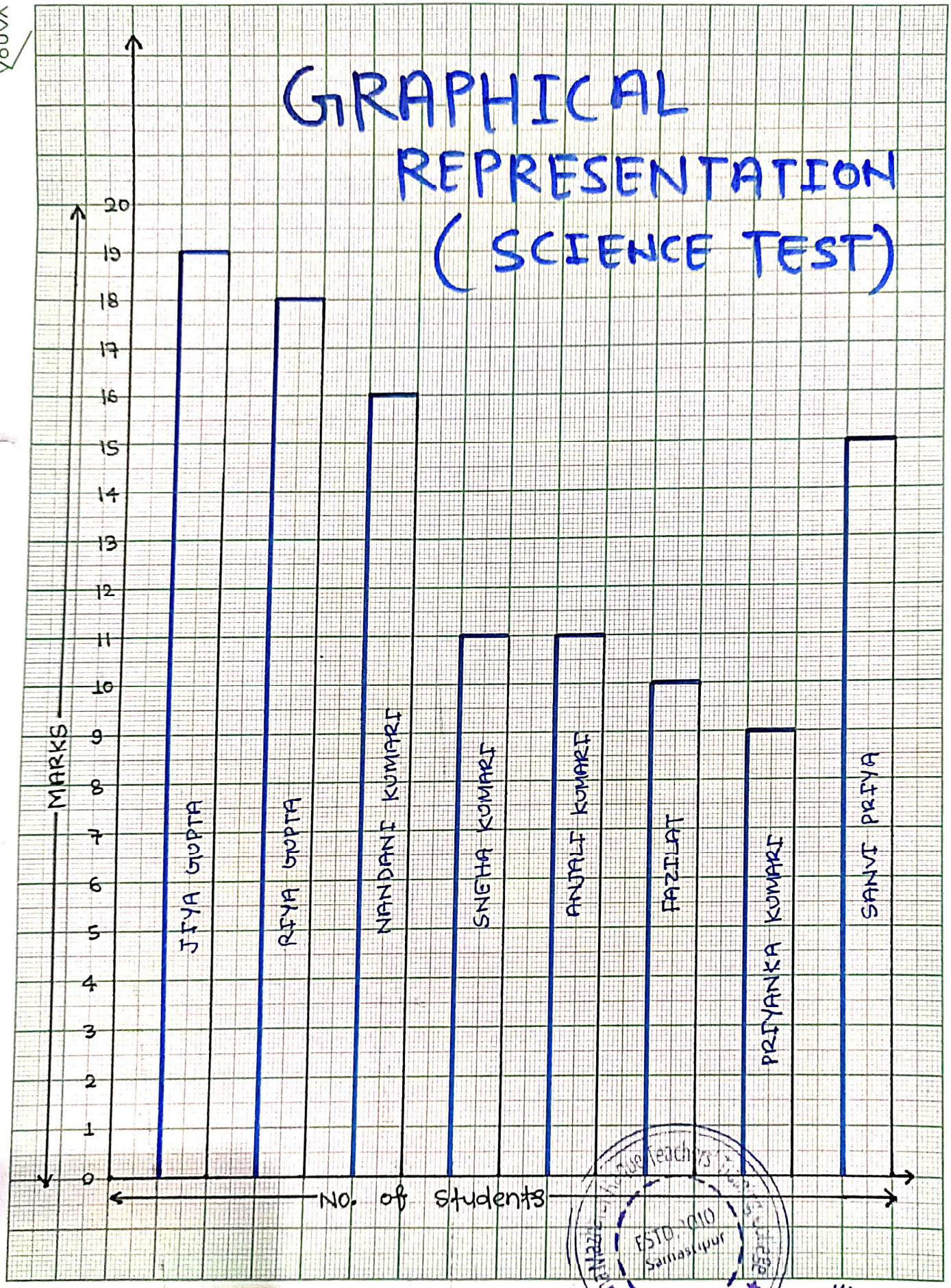
GRAPHICAL REPRESENTATION (SCIENCE TEST)



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STATISTICAL ANALYSIS OF ENGLISH PAPER IX^th

MEAN :-

S.NO	NAME OF STUDENT	SCORE
1.	RIYA GUPTA	16
2.	JIYA GUPTA	10
3.	SANVI PRIYA	15
4.	NANDANI KUMARI	9
5.	SNEHA KUMARI	19
6.	FAZILAT	9
7.	ANJALI KUMARI	15
8.	PRIYANKA KUMARI	12

$$\text{Mean} = \frac{\text{Sum of all Responses}}{\text{Total Number of Students}}$$

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$$\text{Mean} = \frac{\Sigma x}{N}$$

$$\text{Mean} = \frac{16+10+15+9+19+9+15+12}{8}$$

Mean = 13.12

Median :-

Arrange the data in ascending order:-

9, 9, 10, 12, 15, 15, 16, 19

Here the no. of items are 8 which is an even no.

$$\text{Median} = \frac{\frac{N}{2}^{th} + \left(\frac{N}{2}+1\right)^{th}}{2}$$

$$= \frac{4^{th}\text{ term} + 5^{th}\text{ term}}{2}$$

$$= \frac{12+15}{2}$$

Median = 13.5

MODE :-

$$\text{Mode} = 3\,\text{median} - 2\,\text{mean}$$

$$= 3 \times 13.5 - 2 \times 13.12$$

$$= 40.5 - 26.4$$

$$= 40.5 - 26.4$$

Mode = 14.1

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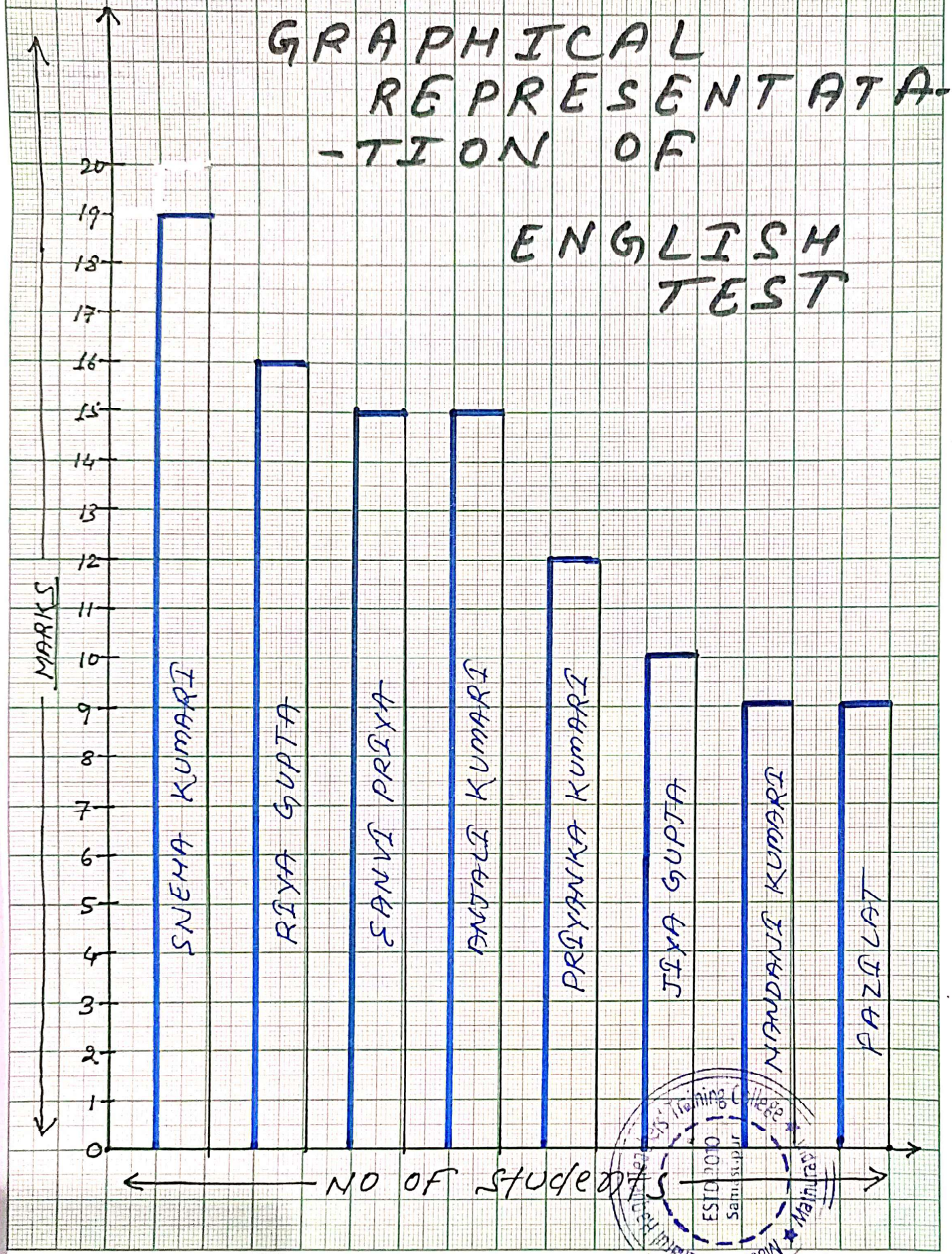
GRAPHICAL REPRESENTATA-TION OF ENGLISH TEST



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