ACHIEVEMENT

TEST

An achievement test is a test of developed skill or knowledge. The common most type of achievement test is a Standardized test developed to measure Skills and knowledge learned in a given grade level, usually through planned instruction Such as training or classroom instruction. Achievement tests are often contrasted with tests that measure aptitude, a more general and stable cognitive trait.

Achievement test scores

are often used in an educational system to determine the level of instruction for which a Student is prepared. High achievement scores usually indicate a mastery of grade-level material, and the readiness for advanced instruction. Low achievement scores can indicate the need for remediation or repeating a course grade.

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When writing achievement test item, writers usually begin with a list of content standards which specify exactly what students are expected to learn in a given school year. The goal of item writers is to create test item that measures the most important skill and knowledge attained most important skill and knowledge attained in a given grade-level. The number and type of test items are written is determined by the gradelevel content standards. content validity is determined by the representative-ness of the items included on the final test.

Scoring:

The Scoring of achievemt test is usually based on a predetermind scoring and where each correct responces receives a designated value, allowing for a quantative measures of the students' knowledge or skill level in a specific subject area; this score is of ten compared to a norm group to interpret

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ret the student's performance relative to others. The overall test scores is then compared to a normative reference group, which consist of individuals who have already taken the test and performed at various levels.

to see how well the test taken and performed creative to others.

RESULT OF ACHIEVEMENT TEST

The result of an achie vement test can provide valuable information about an individual's level of knowledge, Skill or abilities in a specific subject.

It can assist educators

in identifying areas of strength or weakness in Students learning and guide instructional planning. In a workplace sitting, achievement tests can help employer's assess job applicants qualification or determine the training meeds and professional development opportunities for employees.

Therefore it is recommended to consider multiple sources of information when evaluating an individual's overall capabilities

Uses of achievement test

* Determine proficiency and mastery

Achievement tests are

designed to assess an individual's knowledge and understanding of a particular subject or topic. They provide a measure of proficiency and mastery in that area.

* Measure educational outcomes

Achievement tests are

* Assess Learning Progress

Achievement tests help educators assess the progress of stadents over time. By comparing scores on different tests teachers can evaluate the effectiveness of their instruction methods and make necessary arrangement.

* Identifying strengths and weakness

Achievement tests provide Valuable information about a students strength and weakness in a particular subject. This enables educators to tailor instruction to individual needs and provide targeted support where necessary

* Informed educational decisions:

Achievement test results influence important educational decisions such as placement, promotion and graduation. They provide objective data that can be used to make informed decisions about a students academic progress and future educational plans.

* Evaluate teachers and schools:

Achievement tests are often used to evaluate the effectiveness of teachers and schools. They provide a measure of students performance which can be used to identify area of improvement and hold educators and institution accountable.

* Compare Student Performance:

Achievement tests allow for

comparison of students performance across different Schools, district and regions. This information can be used to identify achievement gaps and inform policy decisions aimed at improving educational outcomes.

* childs curriculum development ? REMOVEMENT LEEKE FEELING COM guide the development and modification by curriculum by Identifying area where gausery are etruppling or excelling educators can work informed decisions about what corners and was to provide in their instittions: * Monitor educational standard s Achievement tests bay a crucial role in monitoring and maintally high educational standard they help to excuse that Students are meeting predetermined becommend and objectives, providing a measure of account ability for both educators and studenty * Criteria of a Good Achievement Test * validity: The test should accurately theorine what it intends to measure. This means that the test items should be aligned with the learning objectives or content areas being assessed as if the test is designed to measure makes skill It should include questions that specially address maths concepts and skilly * Releability: The test should yield consistent results overtime and across different test taken This means that if the same test is administered to a group of students on different occassions, their score should be relatively stable and consist ent reliable tests ensure that the scoresare not influenced by factors like guessing, randoms errors or external factors.

- * Objectivity: + The test should be fues from bias meaning that it should not favour or discriminate against any group of test takes based on their gender, ethnity, socioeconomic status or any other personal characteristic. It should be fair and impartial for all test takens.
- * Adequacy of content: The test should have Sufficient range of questions or tasks that adequately cover the topic or learning areas being assessed. It should include a representative Sample of important content and skills e.g. if the test is assessing reading comprehension. It Should include questions that address different types of reading passage genres or text.
- * Clear Institutions and format: The test Should have clear and easy to understand institutions for test takers it should provide a clear format for recording answers and should be structured in a way that is easy to navigate.
- * Qualities of Good Achievement test should have:
- * Authenticity: The test should mirror real life Situalitions or tasks that the test taken may encounter outsides. The testing context Authentic tasks can increase the relevance and engagement of test takers and they can better their usual world application of knowledge and skills.

* Differentiation: The should be able to differentiate between levels of achievement or mastery. It should have items or tasks that are appropriate challenging for both high achievers and low achievers students this can help educates identify the strength and weakness of individual students or groups and tailor instruction accordingly

* Alignment with curriculum and standards:

curriculum or academic

standards ensures that the test assess what

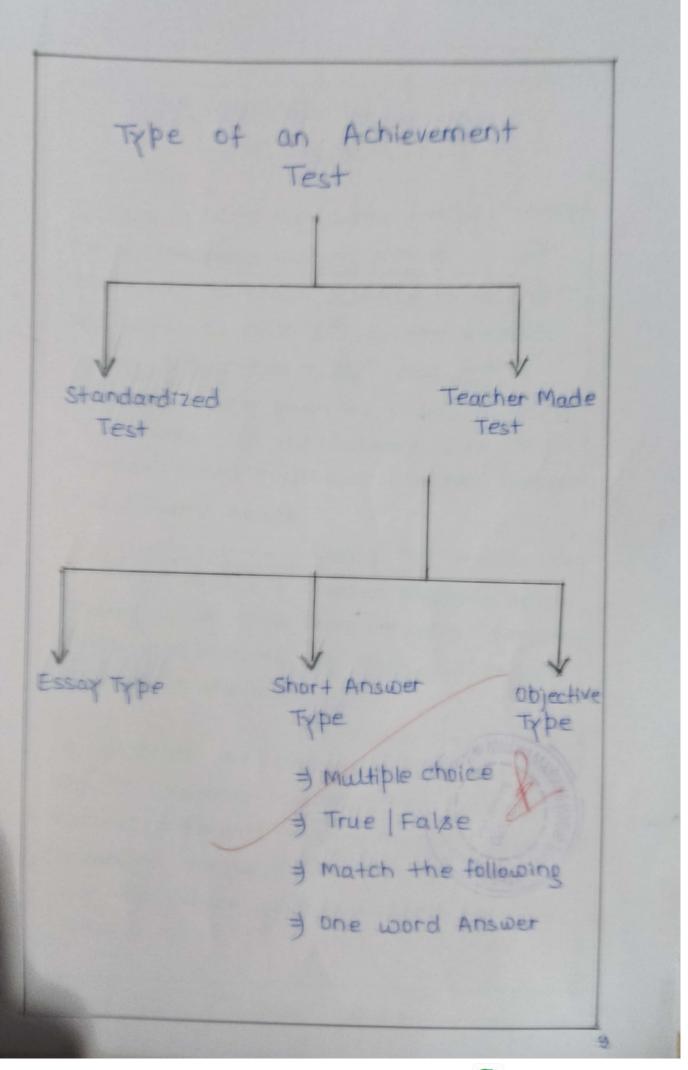
students are expected to learn in a particular

grade or subject. Alignment with standards also provide a clear framework for evaluating students progress and informing instructional decisions.

* Diagnostic information: A good achievement test should provide detailed and meaningful feedback to both test takers and educators

help identify specific areas of strength and weakness, allowing for targeted remediation or enrichment. Diagonstic information can guide instructional planning planning and support individualized learning needs.

These criteria and qualita accurate and useful assessment tool for evaluating student achievement.



PLANNING OF ACHIEVEMEN TEST

I was in Chirls' High school Kashipur, samashipur for my internship training program. I got opportunity to teach science to class IXth and English to class Xth to the students having 8 students in IXth and Xth 8 Students were given to interns to M.M.H.T. T.C. interns. All the students were very interative and responsive, different students had different needs.

During the session when I taught science I realized students need brushing up of their basic concepts. They were comfortable with use of Hindi and English, language in the classroom.

For English class I got 8 Students of class I th. They had difficulty in grammar related topic. I used various (different) teaching methods. Students responded verywell to the FEM used and they were always excited for the class.

After completition of syllabus of both the Subjects I conducted the achievement test to find out the programs of the students during mternahib. 80 I prepared achievement test for both the subjects science and English Science for class Ix th and English for class Xth This achievement test was objective type which contain - fill up, multiple choice questions, and it was prepared according to the capabilities of the students after consulting their class teacher 3 3 3 0 9 9 9 0000000000 11

Science Subject Class

BLUE	PRINT	OF	ACHTEVE	MENTTEST
withdississions			ENCE)	

TABLENOIL	WEIGHTAGE TO OF	BIECTIVES	-
S.No	OBJECTIVES	MARKS	PERCENTING
1.	knowledge	10	501-
2.	understanding	6	301.
3.	Application	4	201-
	TOTAL	20	1001-

TABLE NO 2	WEIGHTAGE	To	CONTENT
			The state of the s

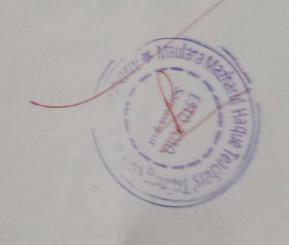
S·NO	CONTENT	MARKS	PERCENTAGE
1	SOUND	10	501-
2	SOME NATURAL PHENOMENA	10/	201-
	TOTAL	26	100

S.No.		No: Of Questions	MIARIS	PERCENTAN
1	fill in the blanks	5	5	254.
2	Mcq's	5	5	254-
3	one word Answers	5	5	254.
4	True and False	5	5	254.
	TOTAL	20	20	100%

5. NO		MARKS	PERCENTAGE
1	EASY	6	301
2	AVERAGE	12	601-
3	DIFFICULT	2	107.
	TOTAL	20	1007-

FINAL BLUE PRINT (SCIENCE)

The same of the sa		The second secon	-			
SINO	Carlery	KNOWLEDGE	UNDERST	ANDING	APPLICATION	TOTAL
1	CONTENTS	FIB	Olm	TIF	MCQ	
1.	SOUND	3	3	2	2	10
2.	SOME NATURAL PHENOMENA	2	2	3	3	10
SIIR	TOTAL	5	5	5	5	20
	TAL	5	5	5	5	20



PAPER OF ACHIEVEMENT TEST

SUBJECT :- SCIENCE

TIME : - 30 Min

GENERAL INSTRUCTION

- · The question paper comprises of 4 sections A,B,C,D
- · All questions are compulsory
- · In section A all questions are multiple choice questions carry one marks each
- · In Section B all questions are based on Fill in the blanks carry one marks each.
- · In section c all questions are (T&F). Carry I mante
- · In section D all questions are short answer questions of one marks each.

SECTION-A

multiple choice questions

- 1. Sound can travel through
- (a) Grases only

(c) solids only

(b) Liquids only

(d) Solid, liquid, gases

- 2. Voice of which of the following is likely to have . minimum frequency?
 - (a) Baby girl

(c) Baby boy

(b) A man

- (d) A woman
- 3. which of the following cannot be charged by friction?
- (a) A plastic scale (6) A copper rod
- (b) An inflated baloon (d) A woollen cloth

4 What happens when glass rod 1% rubbod with a piece of silk cloth? (a) Acquire positive charge (c) Glass rod becomes the 2 state (b) Both acquire -ve (d) Rod becomes -ve cloth becomes the charge. 5. What is electroscope used for? Detect whether body 12 charged or not To watch stars To measure distance To measure friction Section -B fill in the blanks with suitable words 6. Time taken by an object to complete one oscillation is called. 7. Soundness is determined by the vibration. 8. The unit of frequency is. 9 unwanted sound is called 10. Shrillness of sound is determined by of vibration. Section - C Write True or False for given statements 11. Like charge attract each other. (T/F) 12. A charged rog attract a charged Plastic Straw (T) F) 13. Lightining conductor can not protect a building from lightning. (T/F) 14. Earthquake can be predicted in advance (T/F) 15. Earthquake is a natural calanity. (T/F)

3

3

3

3

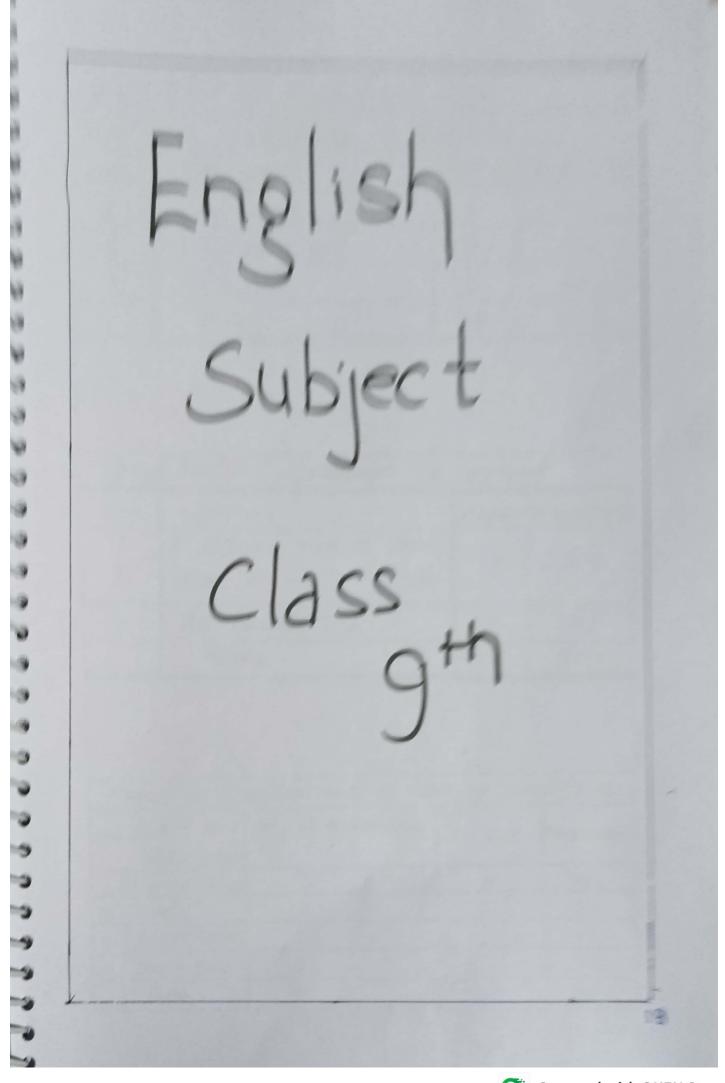
9

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R.NO.	ANSWER KEY			
7	av) solid, liquid and gases			
2	(i) Baby girl			
3	(ii) A copper rod			
4	(ii) glass rod becomes Positive and six cloth negative			
5	(i) Detect whether body is charged or not			
6	Time period			
7	Amplitude			
8	Hertz			
9.	Noise			
10	Pitch			
П	False			
12	True			
13	False			
14	False			
15	True			
16	Move away from elevated area			
17	Hide under a table			
18	Streched membrane			
19	Streched Sterings			
20	cars in traffic			
	The second of th			

9

-



BWE	PRINT	OF ACHIEVEMENT	TEST	
TABLE	NO. 1 -	MEIGHTAGE OF O	STECTIVES.	
S.No.	овтес	TEVES	MARKS	PERLENTAGE
1.	know	sledge	8	40%
2.	Under	standing.	8	40%
3.	Applic	the same of the sa	4	20%
	Tot		20	100%
TABL	E No. 2	- WEIGHTAGE T	O CONTE	NT
S. No.	CONT	ENT	MARKS	PERCENTAG
1		A different kind of school, where do all teachers go		50%
2.	The B	The Banyan Tree		50%
	TOT	AL	20	100 %
1 10			1	
TABL	E NO.3-	WEIGHTAGE TO POR	m of B	SHOTTS
2110	AM OF	No. Of QUESTIONS	MARKS	PERCENTAGE
	n the blanks.	5	5	25%
	co's	5	5	25/.
3. One 1	oord Answers		5	25%.
4. Tru	e a false	5	5	25%.
To	ital	20	20	100%.

20

5. NA	FORM OF QUESTIONS	MARKS	PERCENTAGE
	EASY	6	301
2.	AVERAME	12	601
3.	DIFFICULT	2	101-
	TOTAL	20	100%

	FINAL	BLUE PRI	ENT (ENGLISH)	
	KNOWLEDGE	UNDERSTAN	DING	APPLICATION	ToTal
SNO CONTENT	F/B	OlM	T/F	MCQ	
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

olw - one word answers

T/F - True and False

Mcq - multiple choice questions

ACHIEVEMENT TEST PAPER TIME - 30MIN

SUBJECT

Class :- 9th

GENERAL INSTRUCTION

MAXMARKS :- 20

- · The question paper comprises of 4 sections A, B, C, D.
- · All questions are compulsory.
- · In Section A all questions are multiple choice carry one marks each.
- · In section B all questions are Fill in the blanks carry one marks each.
- · In section c all questions are one word questions carry one marks each.
- · In section D all questions are TIF carry one marks each.
- · Do not write anything unnecessary in the question paper.

SECTION -A

MULTIPLE CHOICE QUESTION

- 1. why do you think the writer visited Mrs. Beam's school? (a) For Admission (c) For visiting
- (b) For Workshop
- (d) For work
- 2. What were the 'game' that every child in the school had to play?
 - (a) cricket

- (c) Football
- (b) disability day (d) soccer

144 141 日 141 141 1	The south is the species are considered
1643 中京第1 (在自台中推 17	WIRL LATER CHARPER
di lahigh animal Ng Banyan Treet	THE FUNDANT OF THE SHAP
(B) Specialors	169 ENERA
B. Whe' lean the	RE WATER TERRET CHANGERS
(A) Mengense	(69 66646)
(h) squiral	(a) mana
	section - 8
FILL IN THE B	LANKS
& This is very	Important part of our school
system to m	ake our children undersend
7. The	day is ofcourse the
8. Where do au	1 the
g. In the spring full of small	, We the red figs.
	- dropped controls to the
3	

SECTION-C

ONE WORD QUESTION

O

3

O

3

- 11. What was the name of school Principle?
- 12. What was the age of being led by a little box?
- 13. At what time Teachers go from school?
- 14 What is the name of the poet of the poem "where do au the Teachers go?
- 15. Where was Authors grand parents house located which had the Banyan Tree?

Section - D

True AND FALSE

- 16. Miss Bean was all the author expected (T/F)
- 17. Poet Plans on following the teacher after school.

 (T/F)
- 18. Poet Plans on writing a letter to the teacher after they find out where do all the teachers 80 (TIF)
- 19. Combatants were aware about the presence of Authoure on the Tree. (TIF)
- 20. There were three Rounds of battle between cobra and Mangoose (TLE)

110	ANSHER KEY
1	Por visit
2	Disability day
3	Fora little
4	spectators
5	Mongooze
6	Blind
7	Blind
8	Teachers
9	Banyan
10	Myna
11	Mrs Bean
12	12 Years
13	'4'oclock
14	Peter Dixon
15	Behren Dun
16	True
17	True
78	False
19	False
20	True

TEST ADMINISTRATION

- + some factors are not under the control of administrator.
- > How fatigued a test is taken
- -> Motivation level of test taken
- Physical Discomfort
- Test Anxiety

which can affect test result.

Different aspects of standardized Administration

Controlling the phyisical Environment

- Light level
- Temperature
- Ambient Noise Level
- ventillation
- + Minimal distrection

controlling these factors helps

to ensure a more reliable testing device. An must be enitable for examination.

various Responsibilities of Administration:

Sceduling the exam of Particular concern when testing children:

- > Don't test during typical or during playground time.
- -) Don't scedule the test immediately.
- -> Don't test longer than I hr zomin span for pre school and elementary school.

26

OTHER GUIDELINES [inform students before the test]

- > when & when test will be conducted.
- -> what subject material will be given.
- -> Type of test questions.
- Time allowance for test.

This information allows the Student to prepare and reduce test taking anxiety.

General Guidelines for Administration to

- to Provide ample time for exam.
- & Allow Sufficient Practice on sample items.
- The Make arrangement for deficits in visual anditory and other sensory motor systems.
- To Be aware of fatigue and test anxiety and take them account when interpreting focus-
- to use encouragement and positive reinforcement whenever possible.
- + Don't force examinees to respond when they repeately decline to do so.
- + cheating should always be prevented
- p The test-taking environment has to be pressured against unwarrented infusion or disturbance.

Ensure all the test takes are given the proper instruction.

Scoring Science Test

Scoring Science Test 28

M	ERIT LIST OF STUDENTS		
RABLE	CT:- SCIENCE	CL	Ass :- 9th
S.No.	STUDENT NAME	MARKS	PERCENTAGE
1.	Roshni Grupta	18	901
2.	Lakshmi kumari	19	954.
3.	Nandani kumazi	15	75%
4.	Arti Priza	16	804.
5.	Sonal Suman	11	55%
6.	Aditi Raj	10	50 /
7.	Bharti kumari	11	554.
8.	Priya Sinha	9	45%
		Maulana Maria	

ITEM ANALYSIS

DIFFICULTY VALUE OF THE ITEM:

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

Accepted Range = 25% - 75%

a contration of the contration

9

9

2

9

2

2

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2

2

H = Number of response in the height Achievers.

L = Number of response in the low achievers group who gave correct answers.

N = Number of student in each group.

- * less than 25% means the item is very difficult.
- * More than 75% means the item is very easy.

DISCRIMINATION INDEX

Accepted Range = (0.2-0.8)

5. No. hame assurand #1 42 43 44 45 46 41 42 42 42 42 42 42 42 43 44 45 46 41 42 42 42 42 42 42 42 42 42 42 42 42 42	-	The same of the sa	-	100	4		משונים	-	3	11+3		CHANE	1	-	CHANCE LATEL CHAN MANIEVERS		24.6	3/15	1		-		-
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+	RoshniGupta	>	*	5	3	1	3	5	15	×	1	5	1	13	1	1 5	1	69
2.	Lakshmi Kumazi	>	>	1	1	1 %	13	1 5	3	1	1	15	13	15	13	15	1	2
'n	Nandani kumozi	>	*	5	3	>	13	1 3	1 %	15	×	1	13	1.3	12	1	140	12
4	Arti Priza	>)	5	13	×	13	1	1 %	13	1 3	9	1	1.5	13	1	19	14
	Tornamen Paro	1	4	+	*	4	+	*	01	4	(1)	1)	(1)	4	011	sh)	1	16

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	MERIT LIST OF STUDENTS							
	SUBJECT : ENGLISH							
S·NO	STUDENT NAME	MARKS	PERCENTAGE					
1.	Roshni Grupta	16	801.					
2.	Lakshmi kumazi	10	501.					
3.	Nandani Kumazi	15	751.					
4.	Arti Priya	9	45%					
5.	Sonal Suman	19	95 %					
6.	Aditi Raj	9	451.					
7.	Bharti Kumari	15	751.					
8.	Priza Sinha	12	601.					
	Difficulty value of Ques	stions $\Delta v =$	$\left(\frac{H+L}{2N}\right)$ X100					
	Discrimination Power = t	T-L NO SUILL	The Market of the Control of the Con					
		Suna:	01898/					

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2	Roshni Gubta	× × × × × × × × × × × × × × × × × × ×	7 7 7
M	Nandani Kumazi	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	X / X / Z / X / Z
+	Bhazti Kumazi x x v	× × × × × × × × × × × × × × × × × × ×	× / / / / / / / / / / / / / / / / / / /
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(LOUB ACHIEVER GROUP)	24	1	×	1	×	H
2	0,4	1	1	×	×	N
艺	OLT.	K	>	×	×	4
240	0 4	1	×	1	1	M
3	25	1	5	×	>	M
17	97	×	×)	×	+
IMI	0 =	1	1	×	×	N
100	9 1	5)	×)	M
LOWER	ळ त	1	×	>	×	d
9	49	×	×	>	1	d
I	00	7	×	×	×	+
THIT	00	1	1	×	×	N
4	Of IT	>	×	>	5	M
EET	69	>	>	×	>	M
の工山山	Q 10	×	>	×	×	+
NOZ	04	>	>	×	>	M)
Z	Ø M	×	×	1)	4
SLE	07	×	*	1	×	-
HOLE	01	×		×	×	+
	Name of Students	Priya Sinha	Lakshmi kumazi	Aditi Raj	Arti Priya	A SO MAN A SO
	S. No.	1	7	8	4	

		TABLE NO 3 - MASTER SHEET (TOTAL STUDENTS)
	200	QUESTION NUMBER
N.S	NAME OF STUDENTS	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
-	Roshni Grupta	/ / / × / / / × / / / × / / / × / / / × / × /
7	Lakshmi kumazi	× × \ \ × × \ \ × × \ X X X X X X X X X
m	Nandani kumozi	/
4	Arti Prixa	\x x x \ \x \ \x x \ \x \ \x x \ \x x \ \x x \ \x \x
S	Sonal suman	くくく×くくくくくくくくくくくくくくくくくくくくくくくくくくくくくくくくくく
9	Aditi Roj	X / X X X X X X X X X X X X X X X X X X
+	Charti Kumari	くくく×くくくくくくくくくくくくくく
00	Priya Sinha	× / < × / / × / / × / × / × × ×
		5 4 6 5 5 7 7 6 3 5 6 6 6 4 6 7 1 6 6 5
	Difficulty value	62.5% 50 %. 75% 62.4 62.58 83.59 83.59 75% 33.58 6258 75% 75% 75% 35% 35% 12.5% 75% 75% 75% 62.58
	Descrimination Power	0.37 0.25 0.25 0.12 0.33 0.12 O 0.15 0.12 0.15 O 0.25 O 0.120.18 0.154 0.156 0.13 0.156 0.157 0.156
	Item Response	
	Maulana Malana M	Accepted Accepted Rejected

STATISTICAL

Introduction: [MEAN, MEDIAN, MODE]

MEAN: It is the average of the data

The total no of students in the achievement test are as follows -

So, formula is

$$\bar{\chi} = \underline{\epsilon} \chi$$

Here

H = Mean

EX = Sum of Response

N = Total No: of students

it is centrically located value of a series that houf of the item are before it and houf are behind it.

Mid value of Seriez is called Median. Number of Responses are even then Median

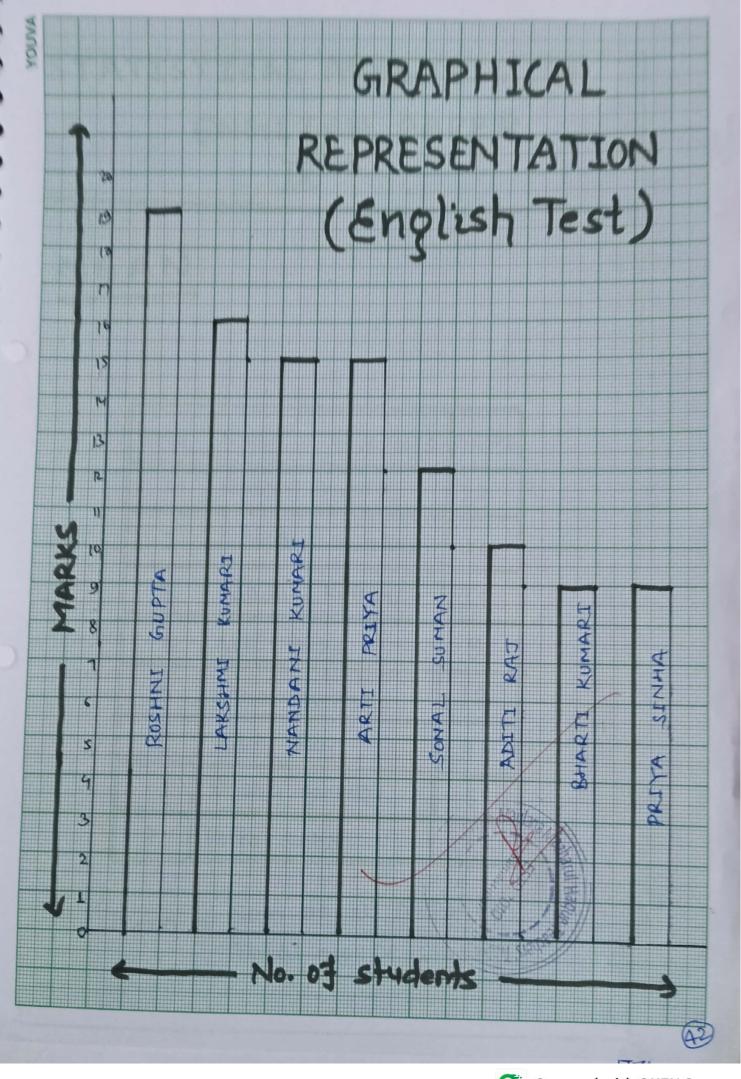
Median =
$$\left(\frac{n}{2}\right)^{+h}$$
 term + $\left(\frac{n}{2}+1\right)^{+h}$ term

If the response are odd then median is Median = $\left(\frac{n+1}{2}\right)^{+h}$ term

MODE :-

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

MODE = 3 Median - 2 Mean



STATISTICAL ANALYSIS OF ENGLISH PAPER TX +h

MEAN

SNO	NAME OF STUDENTS	SCORE
1.	Roshni Gupta	16
2.	Lakshmi kumazi	10
3	Nandani Kumazi	15
4	Arti Priya	9
5	Sonal Suman	19
6	Aditi Raj	9
7	Bharti Kumari	15
8	Priya Sinha	12

Mean = Sum of all responces Total No: Of students

Median :-

Arrage 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

Median =
$$\frac{N+h}{2} + (\frac{N}{2} + 1) + h$$

$$= 12+15$$
 Meadian = 13.5

MODE:

MODE =
$$3$$
 median - 2 mean = $3 \times 13 \cdot 5 - 2 \times 13 \cdot 12$ = $40.5 - 26.4$

