



MOTIWALA COLLEGE OF EDUCATIONAL SCIENCES, NASHIK

B.Ed. 104: ASSESSMENT AND EVALUATION FOR LEARNING

Developing an achievement test with its Blue Print, Answer Key and Marks Distribution

Name of the Student Teacher Bhamare Pooam Roll No. 05

Evaluation Scheme

Rating Scale: 1) Unsatisfactory 2) Average 3) Satisfactory 4) Good 5) Excellent

No.	Criteria	1	2	3	4	5
1	Design of a blue print as per criteria				✓	
2	Instructions given to attend the test				✓	
3	Type of questions and marks allotted as per blue print				✓	
4	Difficulty level of the questions				✓	
5	Language used for framing the questions				✓	
6	Length of a test				✓	
7	Content validity				✓	
8	Answer key with marks distribution				✓	
9	Educational Implication				✓	
10	Overall impression				✓	
Total Marks-50					✓	
					40	

Date

Signature of Professor In-charge

[Signature]
20/9/2022

Introduction

Meaning & definition.

An achievement test has a great significance in all types of Instructional progress of an individual. A classroom teacher depends upon the achievement test for measuring the progress of his student in his subject several educational & vocational decisions about students are taken on their performance in the achievement test. It is therefore necessary that the teacher should be well trained with the meaning & characteristics of achievement test.

Definition.

Thorndike & Hagen (1969) observe the type of Ability test that describe what a person has learned to do is called an achievement test.

Lyndland (1977) defines an achievement test for systematic procedure of determining the amount of student has a learned through instruction.

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCES
(Affiliated to Savitribai Phule Pune University, Pune)

Objectives

To develop blue print

To develop an achievement test

To develop the skill of construction of a
achievement test.

To understand the education implication
of the practical.

To measure some aspects of intellectual
competency of human being what a
person has learned to know or to do

To help the teachers to measure the
attainment of their student.

To measure the intellectual competency
developed by formal education, self study
or other type of experience.

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCES

(Affiliated to Savitribai Phule Pune University, Pune)

Importance of Achievement Test & Blueprint.

Achievement test is easy & convenient information provider compare to other devices.

Test helps to classify school objectives

To discover backward children who need help & to plan for remedial instructions for such students

Test help to select pupils for special classes & course.

It helps to get better understanding of the needs & abilities of pupils.

To determine the efficiency of one school with others.

To evaluate, revise & improve the curriculum.

It is important diagram weakness of student in particular subject.

Most important to spot brilliant & weak children.

To Prepare Blue Print.

The blue print gives the detail of the design is created team. It is three dimensional chart giving the placement of the different questions in respect of.

1. The objective tested by each.
2. The content covered by each.
3. The form of questions which is most suitable for testing (1) & (2)

If a chart is specifying only the first two aspects mentioned is prepared. It will be two dimensional chart.

The blue print is thus a detailed plan based on design for preparing a question paper. It reduces the paper. Later in much same way as the blue print series completed. It helps him in obtaining the finished product as per specification. In the case of test maker it provides greater assurance that this test will measure the learning outcomes & the course content in balanced manners. The blue print of a question paper.

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCES

(Affiliated to Savitribai Phule Pune University, Pune)

* Why do develop blue print *

Blue print is developed to meet the needs of students while accomplishing objectives that teachers are decided long back. To evaluate teachers comprehensively & fairly based on individual performance. Blue print is prepared.

Blue print is used by teacher research administration to in education. It provides students an interaction approaches for education planning to meet the curriculum expectation & teaching objectives.

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCES**(Affiliated to Savitribai Phule Pune University, Pune)***** Uses of Blue Print ***

Blue print is used for assessment of test specification in examination

It is used to enhance time management & strategy to achieve this designed outcome.

It is ~~used~~ used by education use it to design for learning plans.

Parents / guardians for helping young people to develop their career from early age.

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCES
(Affiliated to Savitribai Phule Pune University, Pune)

* Why would we develop Achievement test? *

The purpose to develop achievement test is to measure some aspect of the intellectual competency of human being. Teacher develops the achievement of students in study. Teacher develops the test to judge the overall development of a student in school. It is also developed to examine the development of the cognitive domain in each & every student.

Achievement test plays an important role in the field of education.

* Steps of preparation of Achievement test *

Major or Steps involved.

1. Planning of the test.
2. Preparation of a design for the test.
3. Preparation of blue print.
4. Writing of items.
5. Preparation of the Scoring key & marking schemes.
6. Preparation of question-wise analysis.

Planning of Test.

- (a) Objective of test.
- (b) Determine the maximum time & marks.

Preparation of design for the test.

Important factors to be considered in design for the test are

- 1) Weightage to Objectives
- 2) Weightage to content.
- 3) Weightage to form of questions
- 4) Weightage to difficulty level.

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCES
(Affiliated to Savitribai Phule Pune University, Pune)

To develop an achievement test.

Guidelines to develop an achievement test.

1. Preliminary information of achievement test.
2. Difficulty level of the questions
3. Language of question / correctness of question / construction of the question
4. Instruction required.
5. Prepare sequence of the questions
6. Time limit for the test
7. Relation between word limit & given marks
8. Printing quality of paper, font size.
9. Preparing answer key & marks distribution

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCES

(Affiliated to Savitribai Phule Pune University, Pune)

* Preliminary Information of achievement test *

Subject :-

Std :-

Date :-

Duration :-

Total marks -

Name of Teacher -

Name of School -

2. Difficulty level of the question.
Questions are arranged in a systematic way, they are arranged in a proper systematic way in question paper. The task is not too easy not too difficult.

3. Language of question / co-relation of question construction of the question.
Structure of question is prepared & Structure of question is properly framed. They are grammatically correct & is specific & concise.

4. Instruction required.
Essential instruction should be given to student with an question paper that each question carries how much marks what is the duration to find answer also find word limit for each question.

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCES

(Affiliated to Savitribai Phule Pune University, Pune)

5. Prepare sequence of the questions
All questions should be arranged in a purpose sequence. There should be Objective type question in the question paper.
6. Time limit for the test.
Time should be proper so that all the question should be completed in proper time.
7. Relation between word limit & give limit.
There should be proper word limit & give marks in the question paper. There is a systematic relation between word limit & give marks.
8. Printing quality of paper font size.
The printing quality of paper & font size of the paper is proper so that children can read it properly. Should not can easily solve the paper.
9. Prepare answer key & mark distribution
Making Scheme in particular essential in the case of ^{easy} type & short type questions.

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCE

(Affiliated to Savitribai Phule Pune University, Pune)

Writing of Items.

A paper setter writes items according to the blueprint.

All the different level has to be considered while writing the items.

It should be checked wheather all the questions included in answered within the time allotted.

It is advisable to arrange the questions in order of this difficulty level.

Preparation of the scoring key & marking system

In case of Objective types items where the answer symbols a scoring key is prepared.

2. 3. 4. 5.

In preparing marking scheme the examiners to list out the values points to be added & fill up the marks. to the given to each value point. Question mark distribution is prepared according to the questions.

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCE

(Affiliated to Savitribai Phule Pune University, Pune)

Report writing.

I learned many important things which are all essential to set a question for assessment.

I learnt how to write & divide the following.

Blue print

1. Weightage to Objectives
2. Weightage to content.
3. Weightage to question
4. Question paper.
5. Printed Question paper.
6. Answer key.

When work in professional institutes becomes necessary for us to know how the question paper is prepared systematically.

By this project I come to know all these necessary information, tips and guidelines & some ideas to become a good teacher, who can set his/her question paper for examination.

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCE

(Affiliated to Savitribai Phule Pune University, Pune)

Blue Print.

Name of topic	Knowledge				Understanding				Application				Total.			
	O	S	E	T	O	S	E	T	O	S	E	T	O	S	E	T
Metal.	2(1)			2	1(1)		1(4)	5	1(3)		3		3	3	4	10
Non-metal	2(1)			2	2(1)			2	1(3)		3		4	3		7
Alloy	1(1)			1	2(1)			2	1(3)		3		3	3		6
Corrosion							2(2)	4	1(3)		3			3	4	7
Total	5(1)			5	5(1)		2(4)	13	3(4)		12		10	12	8	30

Objective type

Short answer

Essay type

Total

- Figure inside the bracket indicate marks.
- Figure outside the bracket no of question

15

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCE
(Affiliated to Savitribai Phule Pune University, Pune)

Question Paper.

Metals, Non-Metals & Corrosion.

d = 8th.

sub = Science

Total Marks = 30 Marks

Time = 1 hr.

Fill in the Blanks.

(5m)

Gold is of 100% purity is -----carat gold

Bronze contains the metal ----- and -----

The ----- gas is released when metal react chemically with acid.

Oxide of metals have ----- properties

The non-metals have ----- properties

Match the Pairs

[5M]

~~Mercury~~

~~Graphite~~

~~Sulphur~~

~~Steel~~

Stainless steel

1) Alloy of iron, carbon, nickel

2) Alloy of iron & carbon

3) The lead in a pencil

4) Medicine

5) Thermometer.

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCE

(Affiliated to Savitribai Phule Pune University, Pune)

Q. Give the Scientific Reason (12 M)

Gold and silver are used in coins

Ships are painted at frequent intervals.

Gold & Platinum are called noble elements.

Why iron metal gets corroded after getting contact with H_2O & air (oxygen)?

Answer the following. [8]

1. What is meant by metal & non-metal?

2. Difference between metal & non-metal.

3. What is corrosion?

4. What are the types of corrosion?

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCE
(Affiliated to Savitribai Phule Pune University, Pune)

Answer Key

School Name -

Subject -

Name -

Roll No -

Std - Div

Fill in the Blanks [5M]

Gold is of 100% purity is of 24 carat gold

Brass contain the metal copper & tin

The Hydrogen gas is released when metal react with acid.

Oxides of metal have alkaline properties.

The non-metals sulphur is used in gun powder.

Match the pair [5M]

Mercury

① Thermometer

Graphite

② Lead in pencil

Sulphur

③ Medicine

Steel

④ Alloy of carbon & iron

Stainless Steel

⑤ Alloy of iron, carbon, Ni, Cr.

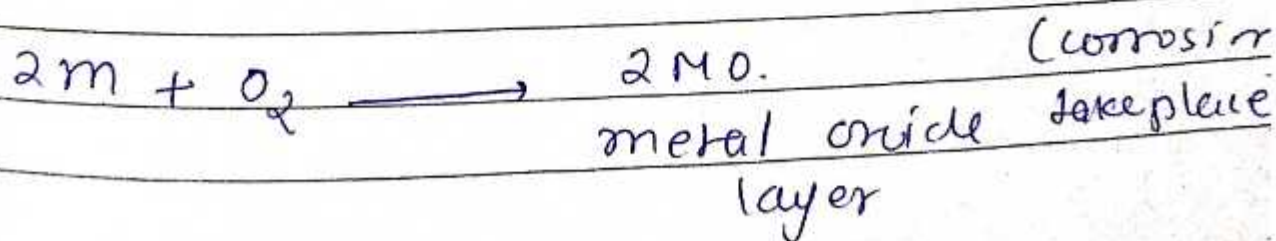
Give the Scientific Reason. [12]

Gold & silver used in coins because ornaments of pure gold breaks or necessary proportion get bend easily so silver is added to gold in necessary proportion.

Ships are painted at frequent intervals because ships are coated with enamel paints to prevent the corrosion of the metal sheet by the salty sea water.

Gold & platinum are called noble elements because metal like platinum gold are found in nature in the form of element they are not affected by air, water, acid, heat etc. Hence they are called noble gas.

Iron metal get corroded after getting contact with water & oxygen because they form oxide layer after coming in contact with oxygen or H_2O .



MOTIWALA COLLEGE OF EDUCATIONAL SCIENCE

(Affiliated to Savitribai Phule Pune University, Pune)

Answer the Following [8M]

Substance are solid, liquid or gaseous state. Solid are shiny, hard, ductile, good conductor of heat & electricity is called metal.

Solid are soft, brittle and do not shine, not ductile, bad conductor of heat and electricity is called as non-metal.

metal

Non metal.

Metal have a lustre

Non-Metal do not have lustre

Metal are ductile.

Non-metal are not ductile.

Metal are malleable

Non-metal are not malleable.

Metal have High density

Non-metal have low density.

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCE

(Affiliated to Savitribai Phule Pune University, Pune)

Corrosion means destruction of metal when it come in contact with gas, liquid, i.e water which destruche the metal. Purity of metal is lose.

Q4]. Types of Corrosion.

Dry Corrosion :- Corrosion due to gas i.e oxygen, air or Harmful fumes is called Dry corrosion.

Wet Corrosion - Wet corrosion due to liquid (i.e water,) is called wet corrosion.

MOTIWALA COLLEGE OF EDUCATIONAL SCIENCE

(Affiliated to Savitribai Phule Pune University, Pune)

Educational Implication *

This practical is very helpful to student teacher in many different ways. The teacher will come to know the general range of the abilities of students in class.

This practical helps to make teaching learning process efficient and effective. It is helpful to teacher to clarify his efforts. The teacher will determine and diagnose the weakness of the student in various subjects. The teacher will spot brilliant & not brilliant children.

The teacher will determine the progress of group in the particular subject over a period of time.

This practical helps teachers wish to know just how their pupil achieve comparison with other similar pupils & classes. Standardized test provide norms which enable teachers to make comparison with marks. This practical is very useful either openly or covertly to evaluate the success of the teacher.

20/9/2022