

Guru Ghasidas Central University

Department of Education

Model Answer of B.ED Semester First

Subject :- Mathematics Teaching

(Objectives Answer)

Q.1 Two Aims of Maths Teaching

- 1 To Bring an All-round And harmonious development of the personality of the child
- 2 To develop the abilities of analysis, synthesis, reasoning, computation etc.

Q.2 Difference between Aims and Objectives

Aims

- 1 These are theoretical and indirect
- 2 These cannot be evaluated

Objectives

- 1 Objectives are direct and concerned with teaching learning Process
- 2 They are definite and clear

Q.3 Characteristics of Mathematics Lesson plan

- 1 It should provide maximum participation of the child in the teaching and learning process
- 2 in the lesson plan there should be proper provision of the teaching aids and good illustrations.

Q.4 Utility of Mathematics Teaching

- 1 Difficult concepts can be taught easily and effectively
- 2 it provides strong motivations and stimulates for further learning

Q.5 Difference between Teaching method and teaching Techniques

- 1 The assumption of teaching method is that teaching is an art
- 2 the criteria for the evaluating the teaching method is the mastery on contents

1 in teaching techniques ,the behavior and relationship are considered important

2 the norms of evaluation is the acquisition of objectives

Q.6 Merits of inductive methods

1 This method is very useful and suitable for lower classes

2 this method develops curiosity and interest in the child to learn mathematics

Q.7 Importance of Mathematics Club

1 It stimulates individual interest and initiative in the subject matter

2 it helps the child to pass time more effectively with some purposeful activities

Q.8 Need of Mathematics Text Book

1 It helps to improve teaching efficiency

2 it helps to solve the problem given in the exercise by understanding the solved examples

Q.9 Two Differences between M & E

1 Evaluation is wider and more inclusive concepts

2 it is a continuous process

1 it is narrow and less inclusive concept than evaluation

2 it is a part of the evaluation process

Q.10 the objectives of CCE

1 To provide valuable data about the strengths and weaknesses of the children regularly

2 the continuous feedback also provides direction to children and parents in their efforts

(Descriptive Answer)

Ans 2 The curriculum includes all those activities, experiences and environments which the child receives during his educational career under the guidance of educational authorities. Thus, curriculum is the total education of the child. Mathematics is an important subject in school curriculum. It is more closely related to our daily life as compared to other subjects. Except our mother tongue, there is no other subject which is more closely related to our daily life.

Reason for keeping mathematics in school Curriculum

1 Mathematics is the basis of all science

2 Mathematics is Related to Human Life

3 Mathematics Generates logical Attitude

4 Mathematics Provides a Definite way of thinking

5 Mathematics is an exact science

Ans 3 ' Curriculum include all those activities which are utilized by the school to attain the aim of education "

" Curriculum is a tool in the hands of the artist to mould his material according to his ideals in his studio."

Principles of Curriculum Constructions in Mathematics

1 Principle of utility

2 Principle of community Centralities

3 Principle of Flexibility

4 Principle of Child Centruroides

5 Teacher's Point of View

6 Principle of Disciplinary Value

7 Principle of culture Value

8 Principle of Correlation

9 Principle of Modernization

10 Principle of Preparatory Value

Ans 4 Inductive method of teaching and mathematics is based on induction .Induction means proving a universal truth or theorem by showing that if it is true in any particular case ,it will be true in the next case in the same serial order .this is a method of development in which the child is made or led to discover truth for himself .In Inductive method the rules and formula are established after extensive study of experiences.

While teaching by this method mainly following steps are used

1 Presentation of specific examples

2 Observation

3 Generalization

4 Testing and verification

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Ans 5 Importance of mathematics Text Book

1 it helps as a guide for the teacher to proceed in an orderly manner according to prescribed syllabus

2 it helps in improving teaching efficiency

3 A teacher can provides guidelines to his pupils

4 it helps in saving time and and energy

5 it helps to supplement class work and home study

6 the teacher can use it as a reference book and teaching aid

7 it helps to pupils to do drill work

8 it is also essential for the critical appraisal of the contents

Characteristics

1 A source of Knowledge

2 A guider

3 An instruction to pupils

4 A means of interpreting truth

5 A good Tool

6 Helpful for author

7 Helpful for language

Ans 6 Measurement is the process of assigning symbols of obtaining a numerical description of the extent to which a person or thing possesses some characteristics

Evaluation is a continuous process and is concerned with more than the formal academic achievement of pupils .It is interested in the development of the individuals in terms of desirable behavioural in relation to his feeling ,thinking and action

Characteristics

1 Evaluation implies a systematic Process

2 Evaluation is a continuous process

3 Evaluation emphasis the broad personality change

4 Evaluation is more concerned with the growth of students

5 Evaluation is purely objectives centered

Ans.7 Education is a process of bringing about changes in the individual in desired directions ,such as the development of interest ,attitudes and skills to carry out the certain activities

1 Learning

2 Behavior

3 Terminal Behavior

4 Criterion

5 Learning Experiences

Taxonomy of Educational Objectives

1 Cognitive Objectives

2 Affective Objectives

3 Psychomotor Objectives

Need and Importance

1 The Teacher gets help in selecting teaching strategies

2 it helps in making certain and specific teaching activities

3 it helps in advance study

4 teaching can be related to learning effectively

5 specification of objectives

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