### Scale of Objectives of Teaching Mathematics

(Criterion test)

Name of the Teacher ____________________________ School/ ____________________________

**Direction for use:**

In the following pages you will come across certain statements concerning the objectives of teaching mathematics at senior secondary stage which are divided into three main categories, i.e. I-Cognitive domain, II-Affective domain, and III-Psychomotor domain. Each statement expresses an objective of teaching mathematics. Keeping in view **THE OBJECTIVES OF TEACHING MATHEMATICS EXPECTED TO BE ATTAINED** you are requested to indicate your agreement or disagreement on five-point scale in respect of each statement. The response given by you SHOULD NOT REFLECT YOUR PERSONAL OPINION, BUT IT SHOULD BE AN EVALUATION OF THE BEHAVIOURAL OBJECTIVE as expressed by each statement. The response categories as indicated in the scale represent the following:

**KEY:**
- **VMA** represents very much Agree
- **MA** represents Much Agree
- **A** represents Agree
- **DA** represents Disagree
- **VMD** represents very Much Disagree

With each statement, five responses are given on the right hand side. If you feel that you very MUCH AGREE with the objective as expressed in a particular statement, please circle **VMA** on the space provided for this purpose, for example (VMA). Similarly suppose the same way in case you DISAGREE with the objective as expressed in a particular statement, please circle **DA**, for example (DA). In the same manner response to other statements may also be written according to your objective judgement.
OBJECTIVES OF TEACHING MATHEMATICS AT THE SENIOR SECONDARY STAGE

1. Cognitive Domain

1. To prepare the child for technical professions such as those of accounts, auditors, bankers, surveyors, cashiers, engineers, scientists, statisticians and mathematics teachers.

2. To prepare the child for economic purposeful, productive, creative and constructive living.

3. To prepare the pupils for the learning of mathematics of higher class (i.e. college and university stage).

4. To enable the pupils to learn other sciences meaningfully and thoroughly.

5. To initiate the pupils towards modern developments in mathematics.

6. To prepare the pupils for advanced study of science and technology.

7. To help the student to apply probability and statistics i.e. possibility of applying mathematics to education, medicine, agriculture, physics, chemistry and economics.

II. Affective Domain

1. To help the student to develop mathematical perspective and outlook for observing the realm of nature and social world.

2. To help the students to think and express precisely, exactly and systematically by making proper use of mathematical language.

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III. Psychomotor Domain

1. To help the student to develop essential skill in surveying, measuring and weighing processes.

2. To help the student to develop skill in the use of mathematical tables and ready reckoners.

3. To help the students to learn and develop the skill of problem solving.

4. To enable the students to learn the skill to recognize the adequacy or inadequacy of given data in relation to the problem.

5. To enable the student to develop the skill to make the precise statements and detect loose statements when these are made.