

NOTIFICATION NO-518/2022

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STUDENT NAME: NEETA RANI

SUPERVISOR NAME: DR. DORI LAL

TOPIC A Study of the Ability of Learners to Apply Mathematics to Solve Real Life Problems

DEPARTMENT Department of Teacher Training and Non Formal Education (IASE), Faculty of Education

Findings

1. Ability of Students to Apply Mathematics to Solve Real Life Problems

The students had a moderate overall ability to apply mathematics to solve real life problems. The students have more ability in solving direct problems based on reproduction of facts, definitions and computations but when it comes to connecting and integrating a given real life problem with mathematics or further modelling, insight and generalisations of a problem, students feel difficulty and ability to solve the real life problems gets reduced. The ability to connect or the ability to mathematically formulate real life problems is lesser than the ability of students to reproduce and perform computations.

2. Perception of Students Regarding Application of Mathematics to Real Life Problems

Mixed responses of students justified the moderate level of ability of students to apply mathematics to solve real life problems. Students consider mathematics as a subject around numbers, quantity, shape and size.. Respondents didn't see any connection of mathematics with their real life.

3. Perception of Teachers Regarding Application of Mathematics in Real Life

Perception of teachers regarding application of mathematics in real life was quite favourable. It is not significantly affected by the gender of the teachers. The qualification of teachers can be significantly associated with the level of overall perception score. More specifically, results obtained indicate that teachers qualified to a lower level like upto graduation have significantly less favorable perception than other groups qualified to a higher level like upto postgraduation or upto doctorate regarding application of mathematics to solve real life problems. In overall perception level, the period of active service of teachers can be associated with the level of overall perception score. More

specifically, results obtained indicate that teachers with lesser period of active service have significantly less favorable perception regarding application of mathematics in real life problems. Teachers who give frequent homework and assignments tend to have more favorable perception regarding application of mathematics in real life problems than the teachers who give homework and assignment occasionally in an irregular manner.