

MATHEMATICS

Question Pool

Class X

State Council of Educational Research and Training
Vidyabhavan Poojappura, Thiruvananthapuram 695 001

To the Teachers

This collection of problems is based on the chapters TRIGONOMETRY, SOLIDS, COORDINATES, MATHEMATICS OF CHANCE, TANGENTS, POLYNOMIALS, GEOMETRY AND ALGEBRA and STATISTICS in the Class 10 textbook . We have tried to include problems of various types and levels. Apart from question which test how far the children have assimilated the various concepts discussed in the textbook, there are also questions which serve to indicate further developments of these concepts. New applications and procedures form a part of knowledge generation. These questions must be viewed through the perspective that every assessment is also a learning activity.

In these problems can be seen a synthesis of physical problems and abstract ideas arising out of them. When fractions, proportions, factors, Pythagoras Theorem all come together in this fusion, not only the needs and practical contexts of concepts learned earlier are seen, but a re-reading of these texts also occurs. This general point of view must be maintained in going through these evaluation procedures.

- The exam paper must include proportional number of questions from each chapter
- The time needed for each question must be considered
- The exam paper should be so designed that most of the concepts in each unit is evaluated
- More than one question based on the same concept need not be used
- Questions that can be answered by children at all levels must be included