

# CONTENTS

Solved Paper 2023 (3 Feb)	1-6
Solved Paper 2023 (30 Jan)	7-12
Solved Paper 2022 (12 Jan)	1-6
Solved Paper 2022 (3 Jan)	7-12
Solved Paper 2021 (31 Dec)	13-18

## MATHEMATICS

<b>1. Introduction of Numbers</b>	<b>1-25</b>
Numerals, Roman Numbers, Classification of Numbers, Operations on Numbers, Approximate Values, Tests for Divisibility, VBODMAS Rule, To find unit Digit in a Number, Two Digit Number and Number Obtained by Reversing the Digits, Series of Numbers	
<b>2. Simple and Decimal Fractions</b>	<b>26-41</b>
Fraction, Simple Fraction, Decimal Fractions	
<b>3. LCM and HCF</b>	<b>42-52</b>
Multiples, Factors, Perfect Number, Least Common Multiple (LCM), Highest Common Factor (HCF), LCM and HCF of Fractions, LCM and HCF of Decimal Numbers, Relation between LCM and HCF	
<b>4. Square - Square Root and Cube - Cube Root</b>	<b>53-74</b>
Square, Square Root, Cube, Cube Root, Indices, Surds	
<b>5. Algebra</b>	<b>75-99</b>
Algebraic Expression, Polynomial, HCF and LCM of Expression, Linear Equation in one Variable, Linear Equation in Two Variable, Quadratic Equation	
<b>6. Geometry</b>	<b>100-144</b>
Some Terms Related to Geometry, Curve, Angle, Plane Figures, Polyhedron, Symmetry	
<b>7. Area and Perimeter</b>	<b>145-169</b>
Area, Perimeter, Triangle, Quadrilateral, Circle	

<b>8. Volume and Surface Area</b>	<b>170-188</b>
Volume, Surface Area, Cuboid, Cube, Cylinder, Cone, Sphere	
<b>9. Data Handling</b>	<b>189-210</b>
Data, Representation of Data, Graphical Representation of Data, Measures of Central Tendency	
<b>10. Problems Based on Arithmetic</b>	<b>211-245</b>
Ratio and Proportion, Average, Percentage, Profit and Loss, Interests (SI & CI), Speed, Time and Distance, Probability	

## PEDAGOGY

<b>1. Nature of Mathematics</b>	<b>249-259</b>
Meaning of Mathematics, Nature of Mathematics, Teaching in Mathematics, Drill in Mathematics, Oral Work in Mathematics, Written work in Mathematics, Group Work in Mathematics, Self Study in Mathematics, Supervised Study in Mathematics, Review in Mathematics, Assignment in Mathematics, Brain Storming in Mathematics	
<b>2. Mathematics in Curriculum</b>	<b>260-265</b>
School Mathematics, Importance of Mathematics in School Curriculum, Place of Mathematics in School Curriculum	
<b>3. Language of Mathematics</b>	<b>266-270</b>
Learning the Language of Mathematics, Merits of Mathematical Language	
<b>4. Community Mathematics</b>	<b>271-276</b>
Meaning of Community Mathematics, Coordinating student Discussion, Values related to Mathematics	
<b>5. Evaluation</b>	<b>277-286</b>
Relationship between Objective, Learning Experiences, Definitions of Evaluation, Process of Evaluation, Formative Evaluation, Summative Evaluation, Techniques of Evaluation	
<b>6. Problems of Teaching Mathematics</b>	<b>287-291</b>
Problems of Teaching Mathematics, Other Systematic Problems	
<b>7. Error Analysis</b>	<b>292-302</b>
Classification of Errors, Teaching Methods	
<b>8. Diagnostic and Remedial Teaching</b>	<b>303-312</b>
Test in Mathematics, Diagnostic Test in School Subjects, Remedial Teaching, Remedial Teaching for Weak Students, Remedial Teaching for Talented Students	
<b>• National Education Policy (NEP) 2020</b>	<b>313-315</b>
<b>• Practice Sets (1-5)</b>	<b>319-328</b>