

CLASS X

Full Marks-100

ARITHMETIC : 15 Marks

1. Miscellaneous problems on Mixture
2. Profit and Loss
3. Interest : Simple and Compound (upto three interest periods, calculating the interest of each period and compounding it)
4. Rate of growth related to social affairs (simple problems).

ALGEBRA : 35 Marks

1. Problems on finding H.C.F. and L.C.M. of polynomials by factorization method. Relation between L.C.M. and H.C.F.
2. Solution of linear simultaneous equations of two variables (by methods of Elimination and Cross Multiplication).
3. Solution of Quadratic Equations with rational roots. Acquaintance with Sridhar Acharya's method. Simple Applications.
4. Problems on Ratio and Proportion. Variation : direct and inverse variation, joint variation, theorem on joint variation (statement only). Simple applications.
5. Inequations with one or two variables only. Graphical representation of inequations: solution region.
6. Surds : Basic operations only (upto quadratic surds).

GEOMETRY : 25 Marks

1. SAME as Before.
2. SAME as Before.
3. Construction :
 - (a) To draw a circle circumscribing a triangle
 - (b) To draw a circle inscribed in a triangle
 - (c) same as (i) before
 - (d) same as (ii) before
 - (e) same as (iii) before

4. Simple applications based on above propositions and constructions.

MENSURATION : 10 Marks

1. Except Rectangular parallelopiped everything same as before;

TRIGONOMETRY : 15 Marks

1. same as before.

Note: Objective and very short answer type questions given in the first part of the question paper will be framed according to the Mathematics Syllabi upto Madhyamik level.

UNITISATION

Unit Testwise Division of Mathematics Syllabus of Class VIII

	1 st Unit 20M	2 nd Unit 20M	3 rd Unit 30M	4 th Unit 20M	5 th Unit 10M Oral	Summative 100M
Arithmetic	Revision of Previous Lessons & Average. Page No. 13 to 24	Frequency Distribution & Rule of Three. Page No. 25 to 42	Percentage. Page No. 43 to 52	Mixture. Page No. 53 to 58	Average & Percentage.	Rule of Three, Percentage & Mixture.
Algebra	Revision of Previous Lessons & Multiplication and Division of Polynomials. Page 61 to 84	Algebraic Formulae for Determination of Cube. Page No. 85 to 100	Factor of Quadratic and Cubic expressions. Page No. 101 to 113	Algebraic fraction & Formation and Solution of Linear Equation in one variable. Page No. 114 to 136	Algebraic Formulae & Simple equation.	Topics of 2nd, 3rd & 4th Unit Test.
Geometry	Revision of Previous Lessons. Page 141-147	Basic Geometrical Properties, Verification of few Geometrical Axioms through Activities. Page No. 148-174	Theorems on Triangles & Quadrilateral & Parallelogram. Page No. 175-192	Construction. Page No. 193-200	Topics of 1st & 3rd Unit Tests.	Topics of 2nd, 3rd & 4th Unit Test.

Unit Testwise Division of Mathematics Syllabus of Class IX

	1st Unit 20M	2nd Unit 20M	3rd Unit 30M	4th Unit 20M	5th Unit 10M Oral	Summative 100M
Arithmetic	Revision of Previous Lessons (Average) Page: 1-20	Revision of Previous Lessons (Rule of Three & Broader Application of Rule of Three) Page: 21-25	Revision of Previous Lessons (Percentage and Simple Interest) Page: 26-36	Revision of Previous Lessons. Familiarity with different Savings Scheme in a Bank Page: 36-48	Topics of second, third and fourth Unit Test	Rule of Three and its extension Percentage, Simple Interest Partnership business
Algebra	Revision of Previous Lessons Page: 51-55	Formation of Simple Equation of one variable, its Solution. Simple Simultaneous Equation & its Solution (comparison and Substitution Method) Page: 55-65	Condition for Solvability of Linear Simultaneous Equation in two variables Page: 67-77	Graph (Two Dimensional) Page: 77-90	Topics of second, third and fourth Unit Test	Topics of second, third and fourth Unit Test
Geometry	Revision of previous Lessons Proposition involving transversal and mid point Theorem Page: 91-111	Theorems involving area page: 112-129	Theorems on concurrency and Pythagoras Theorem Page: 130-144	Geometrical construction: Page: 142-149	Topics of second and third Unit test	Topics of second, third and fourth Unit Test
Mensuration	Rectangle and Square Page: 153-159	Triangle and Quadrilateral Page: 160-177	Circle Page: 178-188	Rectangular Parallelopiped Page: 189-196	Topics of first and fourth Unit Test	Topics of second and third Unit Test