**Course Division 2079**

**C. Maths**

**Class:- I X**

**First Term 2079**

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| **Unit** | ***Subject Matter*** | ***ETP*** |
| **1. Set** | * Set operations (i) Union, intersection difference and complement of sets (up to three sets) (ii) Cardinality of sets | 6 |
| **2. Arithmetic** | * Tax (Income tax, value added tax) | 7 |
| **3. Mensuration** | * Area of scalene triangle * Units off area used in local level: ( Units Bigaha, Kattha, Dhur, Ropani, Anna, Paisa and dam.) * By using cm2 and m2, area of triangular and quadrilateral surface. | 8 |
| **4. Algebra** | * Factorization of the form of (a±b)3,a3±b3 and a4+a2b2+b4 * Simplification of the problem related to indices having same base. | 10 |
| **5. Geometry** | * Triangle * Relation between exterior and opposite interior angles of triangle ( only experiment) * Relation between the base and bisector of vertical angle of an isosceles triangle. ( Only experiment) * Relation between the sum of any two sides and third side of triangle ( Only experiment) |  |
| **6.Statistices and Probability** | * Collection and classification of data. * Frequency table (Discrete and continuous series * Histogon frequency polygen, frequency ogive. | 6 |

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**Second Term**

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| **Unit** | ***Subject Matter*** | ***ETP*** |
| **2. Arithmetic** | * Commission and dividend | 6 |
| **3. Mensuration** | * Problems related to area ( 4 walls, floor and ceiling) * Problems related to investment cost in daily life.   ( Examples: Carpeting, policing etc. | 12 |
| **4. Algebra** | * H.C.F. and LCM at most three expressions in the form of ax2+bx+c, (a±b)3,a3±b3,a4+a2b2+b4 | 8 |
| **5. Geometry** | * Relation between the corresponding angles of similar triangles * Relation between the corresponding sides of similar triangles. * Problems related to similar triangles | 8 |
| **6. Statistics and Probability** | * Mean, Median and mode and quartiles of ungrouped data. | 11 |

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**Third Term**

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| **Unit** | ***Subject Matter*** | ***ETP*** |
| **2. Arithmetic** | * Home arithmetic * Electricity bill, water bill | 8 |
| **3. Mensuration** | * Surface area and volume of prism | 8 |
| **4. Algebra** | * Solving simultaneous equations by elimination and substitution method | 8 |
| **5. Geometry** | * Quadrilateral * Relation of diagonals, opposite sides and opposite angles of parallelogram * Problems related to quadrilateral * Construction of quadrilateral and trapezium | 15 |
| **6.Statistics and probability** | * Introduction and probability * Classical and experimental probability scale * Basic concept of probability ( Experiment, random experiment, result, sample space, mutually exclusive event) * Empirical probability | 6 |
| **7 Trigonometry** | * Concept of trigonometrical ratios * Trigonometric ratios of standard angles (0°,30°,45°,60° 90°) | 6 |

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**C. Maths**

**Final Term**

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| **Unit** | ***Subject Matter*** | ***ETP*** |
| **2. Arithmetic** | * Telephone/Mobile bill * Tax bill | 8 |
| **3.Mensuration** | * Surface area and value of cylinder and sphere | 8 |
| **4. Algebra** | * Sequence and series * Introduction of sequence and general term. * Introduction of series * Use of ∑ (sigma/ summation) * Arithmetic and geometric sequence and series ( Introduction general term) | 10 |
| **5. Geometry** | * Circle * Relation of perpendicular drawn from centre to the chord. * Relation between perpendicular length from the centre to the equal chord. * Problems related to centre and chord of the circle. | 12 |
| **7. Trigonometry** | * Use of trigonometry ratios ( sine, cos, tan) | 6 |