**Course Division 2081**

**C. Maths**

Class :8

**First Term**

|  |  |  |  |  |  |  |  |  |  |  |  |
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| **S.N.** | **Areas** | **Knowledge** | | **Understanding** | | **Application** | | **Higher ability** | | **NoI** | **NoQ** |
| **NoI** | **Marks** | **NoI** | **Marks** | **NoI** | **Marks** | **NoI** | **Marks** |
| 1. | Sets | 2 | 2 |  |  | 2 | 2 | 2 | 2 | 6 | 2 |
| 2. | Statistics |  |  | 1 | 1 | 1 | 2 |  |  | 2 | 1 |
| 3. | Arithmetic | 2 | 2 | 3 | 4 | 3 | 5 | 2 | 3 | 10 | 3 |
| 4. | Mensuration | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 4 | 1 |
| 5. | Algebra | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 4 | 2 |
| 6. | Geometry | 2 | 2 | 2 | 4 | 2 | 6 | 2 | 3 | 8 | 3 |
|  |  | **8** | **8** | **8** | **12** | **10** | **20** | **7** | **10** | **33** | **12** |

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| **Units** | **Topics** | **ETP** |
| 1. Set | * *Disjoint sets and Overlaping sets* * *Proper and Improper Subsets* | 8 |
| 2. Arithmetic | * *Number System* * *Decimal Number System* * *Binary Number System* * *Quinary Number System* * *Conversion* * *Ratio and Proportion* * *Profit and Loss* | 15 |
| 3. Mensuration | * *Area of triangles (Right angled, Equiangular/Equilateral, isosceles)* | 5 |
| 4. Algebra | * *Laws of Indices* | 6 |
| 5. Geometry | * *Lines and Angles* * *Angles formed when transversal cuts two parallel lines* * *Triangles* * *Properties of triangles* * *Sum of angles of triangle is two right angles (180o)* * *Angles of equilateral triangle are equal* * *Base angles of isosceles triangle are equal* * *Base angles of isosceles right angled triangle are 45o.* * *Solid Objects* * *Relations between Prism and Pyramids (On the basis of base, vertices, surface etc.)* | 20 |
| 6. Statistics. | * *Pre-chart* | 4 |
| ***Note: NoI = Numbers of Item, NoQ = Number of Questions*** | | 58 |

**Half Yearly Exam**

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| **S.N.** | **Areas** | **Knowledge** | | **Understanding** | | | | **Application** | | **Higherability** | | | **NoI** | **NoQ** |
| **NoI** | **Marks** | | **NoI** | **Marks** | **NoI** | | **Marks** | | **NoI** | **Marks** |
| 1. | Sets | 1 | 1 | | 1 | 1 | 2 | | 3 | | 1 | 1 | 5 | 2 |
| 2. | Statistics |
| 3. | Arithmetic | 2 | 2 | | 3 | 4 | 3 | | 5 | | 2 | 3 | 10 | 3 |
| 4. | Mensuration | 1 | 1 | | 1 | 1 | 1 | | 2 | | 1 | 1 | 4 | 1 |
| 5. | Algebra | 2 | 2 | | 1 | 2 | 2 | | 4 | | 1 | 2 | 6 | 3 |
| 6. | Geometry | 2 | 2 | | 2 | 4 | 2 | | 6 | | 2 | 3 | 8 | 3 |
|  |  | **8** | **8** | | **8** | **12** | **10** | | **20** | | **7** | **10** | **33** | **12** |

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| **Units** | **Topics** | **ETP** |
| Arithmetic | * *Unitary Method* * *Direct and Inverse Variation (upto three variables)* * *Simple Interest* | 16 |
| Mensuration | * *Area of quadrilaterals (Parallelogram, Trapezium, Rhombus)*   *(Formula Derivation and Application)*   * *Area of circle (Formula Derivation and Application)* | 7 |
| Algebra | * *Factorization* | 7 |
| Geometry | * *Congruency and Similarity of Triangles* * *Conditions of congruency and problems related to congruent triangles* * *Introduction of Similar triangles* * *Coordinate Geometry* * *Distance between two points using Pythagoras theorem* | 10 |
| Statistics | * *Mean, Median and Mode of Individual Data.* | 6 |
|  |  | 46 |

**Second Term**

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| **S.N.** | **Areas** | **Knowledge** | | **Understanding** | | **Application** | | **Higher ability** | | **NoI** | **NoQ** |
| **NoI** | **Marks** | **NoI** | **Marks** | **NoI** | **Marks** | **NoI** | **Marks** |
| 1. | Sets | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 5 | 2 |
| 2. | Statistics |
| 3. | Arithmetic | 2 | 2 | 3 | 4 | 3 | 5 | 2 | 3 | 10 | 3 |
| 4. | Mensuration | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 4 | 1 |
| 5. | Algebra | 2 | 2 | 1 | 2 | 2 | 4 | 1 | 2 | 6 | 3 |
| 6. | Geometry | 2 | 2 | 2 | 4 | 2 | 6 | 2 | 3 | 8 | 3 |
|  |  | **8** | **8** | **8** | **12** | **10** | **20** | **7** | **10** | **33** | **12** |

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| **Units** | **Topics** | **ETP** |
| 1. Arithmetic | * *Rational and Irrational Numbers* * *Scientific Notation* | 12 |
| 2. Algebra | * *HCF & LCM of two expressions* * *Equation and Graph* * *Solution of simultaneous equations of two variables using graphical Method* * *Solution of Quadratic Equation by Factorization Method* * *Rational Expression*   *Simplification upto two terms* | 18 |
| 3. Geometry | * *Exploring the properties of Rhombus, Trapezium & Kite.* * *Relation between interior and exterior angles of regular Polygon* * *Construction of quadrilaterals on following cases* * *Square when a side is given* * *Rectangle when adjacent sides are given* * *Parallelogram when* * *adjacent sides and angle between them are given,* * *adjacent sides and a diagonal are given* * *a side, a diagonal and angle between them are given* * *Transformation* * *Reflection through x-axis and y-axis (Triangle)* * *Displacement of point and line on +ve x-axis and +ve y-axis* * *Rotation of point, line and triangle through +90o and -90o about origin* | 20 |
|  |  | 50 |

**Final /Pre BLE Exam**

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| **S.N.** | **Areas** | **Knowledge** | | **Understanding** | | **Application** | | **Higher ability** | | **NoI** | **NoQ** | **Marks** |
| **NoI** | **Marks** | **NoI** | **Marks** | **NoI** | **Marks** | **NoI** | **Marks** |
| 1. | Sets | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 5 | 2 | 3 |
| 2. | Statistics | 3 |
| 3. | Arithmetic | 2 | 2 | 3 | 4 | 3 | 5 | 2 | 3 | 10 | 3 | 14 |
| 4. | Mensuration | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 4 | 1 | 5 |
| 5. | Algebra | 2 | 2 | 1 | 2 | 2 | 4 | 1 | 2 | 6 | 3 | 10 |
| 6. | Geometry | 2 | 2 | 2 | 4 | 2 | 6 | 2 | 3 | 8 | 3 | 15 |
|  |  | **8** | **8** | **8** | **12** | **10** | **20** | **7** | **10** | **33** | **12** | **50** |

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| **Units** | **Topics** | **ETP** |
| 1. Geometry | * *Net of Cube, Cuboid, Tetrahedron, Cone and Cylinder* * *Symmetry and tessellation* * *Regular and semi-regular tessellation using polygons* * *Bearing and Scale Drawing* | 10 |
|  |  | 10 |

**Course Division 2081**

**C. Maths**

**Class:- I X**

#### First Term 2081

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| ***Unit*** | ***Subject Matter*** | ***ETP*** |
| ***1. Set*** | * *Set operations*   *i) Union, intersection difference and complement of sets (upto three sets)*  *ii) Cardinality of sets* | *8* |
| ***2. Arithmetic*** | * *Tax (Income tax, value added tax)* | *10* |
| ***3. Mensuration*** | * *Area of scalene triangle* * *Units of area used in local level: ( Units : Bigaha, Kattha, Dhur, Ropani, Anna, Paisa and dam.)* * *Area of triangular and quadrilateral surface.( By using cm2 and m2)* | *10* |
| ***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)* | *10* |
| ***6.Statistices and Probability*** | * *Collection and classification of data.* * *Frequency table (Discrete and continuous series.)* * *Histogram frequency polygon, frequency ogive.* | *6* |
| ***7 Trigonometry*** | * *Concept of trigonometric ratios* * *Trigonometric ratios of standard angles (0°,30°,45°,60° , 90°)* * *Use of trigonometry ratios ( sin, cos, tan)* | *10* |

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| **S.N.** | **Areas** | **Knowledge** | | **Understanding** | | **Application** | | **Higher ability** | | NoI | NoQ |
| NoI | Marks | NoI | Marks | NoI | Marks | NoI | Marks |
| 1. | Sets | **2** | **2** | **2** | **2** | **2** | **6** | **2** | **2** | **8** | **2** |
| 2. | Arithmetic | **2** | **2** | **2** | **3** | **3** | **5** | **2** | **3** | **9** | **3** |
| 3. | Menstruation | **2** | **2** | **2** | **3** | **2** | **5** | **2** | **3** | **8** | **3** |
| 4. | Algebra | **2** | **2** | **2** | **4** | **3** | **7** | **1** | **2** | **8** | **3** |
| 5. | Geometry | **1** | **1** | **1** | **2** | **1** | **2** | **1** | **2** | **4** | **2** |
| 6. | Statistics and Probability | **2** | **2** | **2** | **3** | **2** | **4** | **2** | **2** | **8** | **2** |
| 7. | Trigonometry | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **4** | **1** |
|  |  |  | **12** |  | **18** |  | **30** |  | **15** | **49** | **16** |

### Half Yearly Exam

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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 of 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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| ***S.N.*** | ***Areas*** | **Knowledge** | | **Understanding** | | **Application** | | **Higher ability** | | NoI | NoQ |
| NoI | Marks | NoI | Marks | NoI | Marks | NoI | Marks |
| 1. | Sets | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 1 |
| 2. | Arithmetic | 2 | 2 | 2 | 3 | 3 | 5 | 2 | 3 | 9 | 3 |
| 3. | Mensuration | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 3 | 8 | 3 |
| 4. | Algebra | 2 | 2 | 2 | 4 | 3 | 7 | 1 | 2 | 8 | 3 |
| 5. | Geometry | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 3 | 8 | 3 |
| 6. | Statistics and Probability | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 2 | 8 | 2 |
| 7. | Trigonometry | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 |
|  |  |  | **12** |  | **18** |  | **30** |  | **15** | **49** | **16** |

# **Second Term Exam**

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| ***Unit*** | ***Subject Matter*** | ***ETP*** |
| ***2. Arithmetic*** | * *Home arithmetic* * *Electricity bill, water bill* * *Telephone/Mobile bill* * *Taxi bill* | *16* |
| ***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 to probability* * *Classical and experimental probability scale* * *Basic concept of probability (Experiment, random experiment, result, sample space, mutually exclusive events)* * *Empirical probability* | *6* |

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| ***S.N.*** | ***Areas*** | **Knowledge** | | **Understanding** | | **Application** | | **Higher ability** | | **NoI** | **NoQ** |
| NoI | Marks | NoI | Marks | NoI | Marks | NoI | Marks |
| 1. | Sets | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 1 |
| 2. | Arithmetic | 2 | 2 | 2 | 3 | 3 | 5 | 2 | 3 | 9 | 3 |
| 3. | Mensuration | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 3 | 8 | 3 |
| 4. | Algebra | 2 | 2 | 2 | 4 | 3 | 7 | 1 | 2 | 8 | 3 |
| 5. | Geometry | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 3 | 8 | 3 |
| 6. | Statistics and Probability | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 2 | 8 | 2 |
| 7. | Trigonometry | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 |
|  |  |  | **12** |  | **18** |  | **30** |  | **15** | **49** | **16** |

## ***Final Term***

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| ***Unit*** | ***Subject Matter*** | ***ETP*** |
| ***3.Mensuration*** | * *Surface area and value of cylinder and sphere* | *12* |
| ***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)* | *14* |
| ***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.* | *16* |

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| **S.N.** | **Areas** | **Knowledge** | | **Understanding** | | **Application** | | **Higher ability** | | **NoI** | **NoQ** |
| **NoI** | **Marks** | **NoI** | **Marks** | **NoI** | **Marks** | **NoI** | **Marks** |
| **1.** | **Sets** | **1** | **1** | **1** | **1** | **1** | **3** | **1** | **1** | **4** | **1** |
| **2.** | **Arithmetic** | **2** | **2** | **2** | **3** | **3** | **5** | **2** | **3** | **9** | **3** |
| **3.** | **Mensuration** | **2** | **2** | **2** | **3** | **2** | **5** | **2** | **3** | **8** | **3** |
| **4.** | **Algebra** | **2** | **2** | **2** | **4** | **3** | **7** | **1** | **2** | **8** | **3** |
| **5.** | **Geometry** | **2** | **2** | **2** | **3** | **2** | **5** | **2** | **3** | **8** | **3** |
| **6.** | **Statistics and Probability** | **2** | **2** | **2** | **3** | **2** | **4** | **2** | **2** | **8** | **2** |
| **7.** | **Trigonometry** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **1** | **4** | **1** |
|  |  |  | **12** |  | **18** |  | **30** |  | **15** | **49** | **16** |

**Course Division 2081**

**Class:- X**

**C. Maths**

**First Term Exam**

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| **S.N.** | **Units** | **Knowledge** | | | **Understanding** | | **Application** | | **Higher ability** | | NoI | NoQ |
| NoI | Marks | NoI | | Marks | NoI | Marks | NoI | Marks |
| 1 | Sets | 2 | 2 | 2 | | 2 | 2 | 4 | 2 | 2 | 10 | 2 |
| 2. | Mensuration | 2 | 2 | 2 | | 3 | 2 | 5 | 2 | 3 | 13 | 3 |
| 3. | Algebra | 3 | 3 | 2 | | 4 | 6 | 12 | 3 | 5 | 24 | 5 |
| 4. | Geometry | 3 | 3 | 4 | | 6 | 2 | 5 | 2 | 3 | 17 | 4 |
| 5. | Statistics | 2 | 2 | 2 | | 3 | 2 | 4 | 2 | 2 | 11 | 2 |
|  | **Total** | **12** | **12** | **12** | | **18** | **14** | **30** | **11** | **15** | **75** | **16** |

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| **Unit** | ***Subject Matter*** | ***ETP*** |
| 1. ***Set*** | *- Cardinality of the two sets by using Venn-diagram*  *- Cardinality of the three sets by using Venn-diagram*  *- Words problems based on at most three sets by using Venn-diagram (union, intersection, complements and difference)* | *10* |
| 1. ***Mensuration*** | *- L.S.A., T.S.A and volume of pyramid ( only square based and circular based pyramid)* | *11* |
| 1. ***Algebra*** | *- Introduction of quadratic equation.*  *- Solving quadratic equation (Factorization, completing square and formula method)*  *- Words problems related to quadratic equation*  *- Exponential equation.* | *18* |
| 1. ***Geometry*** | *- Theorems related to area of triangle and quadrilateral. (Only theoretical proof)*  *\* Area of parallelograms standing on same base and between same parallel lines are equal.*  *\* Area of triangle is half of area of parallelogram standing on same base and between same parallel lines.*  *\* Area of triangles standing on same base and between same parallel lines are equal.*  *- Construction (Triangle and quadrilateral having equal area)* | *14* |
| **5. Statistics** | *- Mean, median and quartiles of continuous data.* | *10* |

**Half Yearly Exam**

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| **S.N.** | **Units** | **Knowledge** | | **Understanding** | | **Application** | | **Higher ability** | | NoI | NoQ |
| NoI | Marks | NoI | Marks | NoI | Marks | NoI | Marks |
| 1 | Sets | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 6 | 1 |
| 2. | Arithmetic | 2 | 2 | 2 | 3 | 3 | 5 | 2 | 3 | 13 | 3 |
| 3. | Mensuration | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 3 | 13 | 3 |
| 4. | Algebra | 3 | 3 | 3 | 5 | 4 | 8 | 2 | 3 | 19 | 4 |
| 5. | Geometry | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 3 | 13 | 3 |
| 6 | Statistics | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 2 | 11 | 2 |
|  | **Total** | **12** | **12** | **12** | **18** | **14** | **30** | **11** | **15** | **75** | **16** |

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| **Unit** | ***Subject Matter*** | ***ETP*** |
| *1. Arithmetic* | *- Annual compound interest at most of three years.*  *- Semi-annual compound interest at most of two years.*  *- Quarterly compound interest at most of one year.* | *10* |
| 2 . Mensuration | *- Area and volume of combined solid made of at most two solids (Cylinder, hemisphere, Cube, Cuboid and pyramid)*  *- Problems related to required cost and quantity* | ***12*** |
| 3Algebra | *- Introduction of A.S.*  *- Means of A.S.*  *- Sum of the nth terms of A.S.* | ***10*** |
| 4. Geometry | *- Circle*  *\* Arcs which subtend equal angles at the centre of circle are equal and its converse.(only concept)*  *\* Two equal chords cut equal arcs on the circle and its converse. (only concept)*  *\* Angle in semi circle is right angle. (only concept).*  *\* Angle at the centre of a circle is double of inscribe angle standing on same arc.(Exp. and Theoretical proof)*  *\* Inscribe angles standing on same arc of the circle are equal. (Only concept)*  *\* The sum of opposite angles of a cyclic quadrilateral is supplementary . (Exp. and Theoretical proof)*  *- Problems related to angles and its opposites arcs.* | ***14*** |

**Third Exam**

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| **S.N.** | **Areas** | **Knowledge** | | **Understanding** | | **Application** | | **Higher ability** | | NoI | NoQ |
| NoI | Marks | NoI | Marks | NoI | Marks | NoI | Marks |
| 1. | Sets | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 1 |
| 2. | Arithmetic | 2 | 2 | 2 | 3 | 3 | 5 | 2 | 3 | 9 | 3 |
| 3. | Mensuration | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 3 | 8 | 3 |
| 4. | Algebra | 2 | 2 | 2 | 4 | 3 | 7 | 1 | 2 | 8 | 3 |
| 5. | Geometry | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 3 | 8 | 3 |
| 6. | Statistics and Probability | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 2 | 8 | 2 |
| 7. | Trigonometry | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 |
|  |  |  | **12** |  | **18** |  | **30** |  | **15** | **49** | **16** |

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| **Unit** | ***Subject Matter*** | ***ETP*** |
| 1 Arithmetic | *- Population growth and deprecation ( only yearly)*  *- Currency and exchange rate.* | *12* |
| 3. Algebra | *- Simplification of rational expression (at most three fractions)*   * *Introduction of G.S.* * *Means of G.S.*   *- Sum of the nth terms of G.S.* | *15* |
| 4. Trigonometry | *- Height and distance (having only one angle of elevation or depression.)* | *8* |
| 5. Probability | *- Addition law of mutually exclusive events*  *- Addition and multiplication law of dependent and independent events*  *- Solving simple problems of probability by using tree diagram ( up to three steps for two events and two steps for three events)* | *7* |
| 6. Statistics | *- Mode and range of group data* | *5* |