**Course Division 2082**

**C. Maths**

Class :8

**First Term**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.N.** | **Areas** | **Knowledge** | **Understanding** | **Application** | **Higher ability** | **NoI** | **NoQ** |
| **NoI** | **Marks** | **NoI** | **Marks** | **NoI** | **Marks** | **NoI** | **Marks** |
| 1. | Sets | 2 | 2 |  |  | 2 | 2 | 1 | 2 | 5 | 2 |
| 2. | Statistics |  |  | 1 | 1 | 1 | 2 |  |  | 2 | 1 |
| 3. | Arithmetic | 2 | 2 | 3 | 4 | 3 | 6 | 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 Overlapping 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.*
 | 17 |
| 6. Statistics. | * *Pre-chart*
 | 4 |
| ***Note: NoI = Numbers of Item, NoQ = Number of Questions*** | 55 |

**Half Yearly Exam**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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** |

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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** |

|  |  |  |
| --- | --- | --- |
| **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*
* *Solid Objects*
* *Relations between Prism and Pyramids (On the basis of base, vertices, surface etc.)*
* *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*
 | 23 |
|  |  | 53 |

**Final /Pre BLE Exam**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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** |

|  |  |  |
| --- | --- | --- |
| **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 2082**

**C. Maths**

**Class:- I X**

#### First Term

|  |  |  |
| --- | --- | --- |
| ***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*
 | *4* |

|  |  |  |  |  |  |  |  |
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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

|  |  |  |
| --- | --- | --- |
| ***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. Trigonometry*** | * *Trigonometric ratios of standard angles (0°,30°,45°,60° , 90°)*
 | *3* |
| ***7. 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**

|  |  |  |
| --- | --- | --- |
| ***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. Trigonometry*** | * *Use of trigonometry ratios ( sin, cos, tan)*
 | *3* |
| ***7.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***

|  |  |  |
| --- | --- | --- |
| ***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 2082**

**Class:- X**

**C. Maths**

**First Term Exam**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.N.** | **Units** | **Knowledge** | **Understanding** | **Application** | **Higher ability** | NoQ | Marks |
| NoI | Marks | NoI | Marks | NoI | Marks | NoI | Marks |
| 1 | Sets | 2 | 2 | 2 | 2 | 2 | 6 | 2 | 2 | 2 | 12 |
| 2. | Arithmetic | 1 | 1 | 1 | 2 | 2 | 4 | 2 | 3 | 2 | 10 |
| 3. | Mensuration | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 3 | 3 | 13 |
| 4. | Algebra | 2 | 2 | 1 | 2 | 4 | 8 | 1 | 2 | 3 | 14 |
| 5. | Geometry | 3 | 3 | 4 | 6 | 2 | 4 | 2 | 3 | 4 | 16 |
| 6. | Statistics | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 10 |
|  | **Total** | **12** | **12** | **12** | **18** | **14** | **30** | **11** | **15** | **16** | **75** |

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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. ***Arithmetic***
 | *- Currencies and exchange rate* | *5* |
| 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*  | *12* |
| 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 and median of continuous data.* | *6* |

**Half Yearly Exam**

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

|  |  |  |
| --- | --- | --- |
| **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***  |
| 3. Algebra | *- 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*** |
| **5. Statistics** | *- Quartiles of continuous data.* | ***4*** |

**Second Exam**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.N.** | **Areas** | **Knowledge** | **Understanding** | **Application** | **Higher ability** | NoQ | Marks |
| NoI | Marks | NoI | Marks | NoI | Marks | NoI | Marks |
| 1. | Sets | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 6 |
| 2. | Arithmetic | 2 | 2 | 2 | 3 | 3 | 5 | 2 | 3 | 3 | 13 |
| 3. | Mensuration | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 3 | 3 | 13 |
| 4. | Algebra | 2 | 2 | 2 | 4 | 3 | 7 | 1 | 2 | 3 | 15 |
| 5. | Geometry | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 3 | 3 | 13 |
| 6. | Statistics and Probability | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 2 | 2 | 11 |
| 7. | Trigonometry | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 |
|  |  |  | **12** |  | **18** |  | **30** |  | **15** | **16** | **75** |

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| --- | --- | --- |
| **Unit** | ***Subject Matter*** | ***ETP*** |
| 1 Arithmetic | *- Population growth and deprecation (only yearly)* | *12* |
| 3. Algebra | *- Exponential equation.**- Simplification of rational expression (at most three fractions)** *Introduction of G.S.*
* *Means of G.S.*

*- Sum of the nth terms of G.S.*  | *20* |
| 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* |