
Index 8th Math

Chapter Name

- 1) **Number of Knowledge**
 - A) Rational Number & Operation on it
 - B) Number Line
- 2) **Operation on Number**
 - A) Divisibility test of (L.C.M G.C.D)
 - B) Prime Factor Method (G.C.D)
 - C) Division Method
 - D) Characteristics of G.C.D
 - E) Least Common Multiplier
 - F) Prime Factor Method (L.C.M)
 - G) Characteristics of L.C.M & G.C.D
- 3) **Square & Square Root**
- 4) **Indices**
 - A) Rules of Indices
 - B) Expanded form of Numbers
- 5) **Divisible Test for 2, 3, 5, 10**
(Test for divisible, Properties of divisible Solving the brackets, Type of brackets)

Chapter Name

- 6) **Measurements**
 - 1) Length, Mass, Capacity
 - 2) Time, Coins & Currency
Notes
- 7) **Perimeter & area**
- 8) **Volume & Surface area**
(Volume, Comparison between cube & cuboid, Volume of Cube, Surface area of cube, Volume of cuboid, Formulae)
- 9) **Profit & loss**
(Cost Price, Selling Price, Profit Loss, Formulae)
- 10) **Percentage**
 - a) To convert a fraction into percentage (%)
 - b) To convert percentage (%) into fraction
 - c) The ratio & the corresponding conversion to (%)
 - d) To convert the decimal fraction into (%)
 - e) To convert % into decimal fraction

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- 11) Simple Interest**
(Capital, Simple interest, Rate, Rate of interest, Period, Interest depends upon period Important formulae)
- 12) Ration & Proportion**
- 13) Decimal Fraction**
- A) Reading & writing of decimal fraction
 - B) The place value of decimal fraction
 - C) Equivalent value of decimal fraction
 - D) Same place decimal fraction number
 - E) The addition & subtraction of decimal fraction
 - F) Multiplication of decimal fraction
- 14) Angle & Types of angles**
(Angle, Interior & exterior parts of angle. The name & components of angle, Protractor Comparison of angle, Congruent angle, Types of Angles)

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- 15) Parallel Line**
(Transverse, Pair of angle due to transverse, Corresponding angle, Alternative angle, Interior angle)
- 16) Triangle & Types of triangle**
(Triangle, Components of triangle, Exterior angle of triangle, Interior & Exterior region of triangle, Area of triangle, On the bases of angle, Types of angle)
- 17) Construction of triangle / Corresponding vertex**
- A) Construction & Congruency of triangle
 - B) Congruency of Square, rectangle & Circle
 - C) Equal Are Figure
- 18) Concurrence in triangle**
(Altitude, Vertex of triangles, The place of concurrence points of altitudes, Congruency

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of altitudes, Perpendicular bisectors of sides, Place of the centre point of circle in triangle, Angle bisectors, Medians

19) Circle

(Circles interior & exterior region, Central angle Some properties, Some formulae)

20) Statistics

(Statistics, Measures of Central tendency, Arithmetic mean, Mean of a Grouped frequency Distribution, Median, Mode)

21) Trigonometry

22) Sets

(Set, Method of writing sets, Venn Diagram Types of sets, Operation on sets)

23) Joins Bar Graph

(Bar Graph, Reading of bar graph, Pictographic information)

Index 8th Science

Chapter Name

- 1) **Living Things**
 - a) Characteristics of living things
 - b) Classification of Plants
 - c) Classification of Animals
 - d) Reproduction of Plants
 - e) Reproduction of Animals
- 2) **Current - Electricity**
 - a) Static Electricity & other terms
- 3) **Sound**
 - a) Sound produced by humans
 - b) Reflection of sound
 - c) Production of sound
 - d) Laws of Reflection of sound
 - e) Transmission of sound
 - f) Propagation of sound
- 4) **Stars & Solar System**
 - a) Shape of the Earth
 - b) Solar system
 - c) Other Important terms
- 5) **Carbon & it's compound**
 - a) Carbon
 - b) Carbon Atom
 - c) Physical Properties of Carbon
 - d) Uses of Carbon in daily life

Chapter Name

- e) Versatile nature of carbon
- f) Carbon & its compounds
- g) Green House Effect
- h) Formation of Compound
- i) Some Other Terms
- 6) **Chemical & Physical changes**
 - a) Types of Chemical Changes
 - b) Chemical Reactions
 - c) Types of Chemical Reactions
 - d) What Chemical Changes Involved
 - e) Physical Changes
 - f) Some Important Terms
- 7) **Metal & Non Metal**
 - a) Metals & its Properties
 - b) Chemical Properties of Metals
 - c) Some Important Terms
- 8) **Force**
 - a) Effects of Force
 - b) Types of Force
 - c) Mass

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- d) Weight
- e) Gravity
- f) Pressure
- g) Air Resistance
- h) Newton's Law of Motions
- I) Some Important Terms

9) Separation of substance

- a) Some Important Terms
- b) Methods of separation

10) Waste water

- a) Types of wastewater
- b) Sources of wastewater
- c) Effects of wastewater
- d) Wastewater Management

12) Disaster Management

- a) Landslides and Mud flows
 - b) Earthquakes & Tsunamis
 - c) Flood
 - d) Wild Fires
 - e) Hurricanes and Tropical Storms
 - f) Forest Fires
 - g) Volcanoes
 - h) Drought
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Index 8th Aptitude

Chapter Name

- 1) **Comprehension**
 - a) Alphabet series
 - b) Sign series
 - c) Comprehension by information
 - d) Digit & number series
- 2) **Classification**
 - a) Classification of words & alphabets
 - b) Classification of numbers
 - c) Classification of figure
- 3) **Series/sequence**
 - a) Number series
 - b) Figure series
 - c) Sign series
 - d) Alphabet series
 - e) Find the wrong term
 - f) Rhythmic arrangement of term
- 4) **Logical reasoning & figure analysis**
 - a) **Verbal**
 - i) Relationship
 - ii) Direction
 - iii) Comparison
 - iv) Analysis/Tabulation
 - v) Age
 - vi) Calender
 - b) **Non Verbal**
 - i) Completing the figure

Chapter Name

- ii) Mirror image
- iii) Reflection
- 5) **Analogy**
 - a) Word & Letter similarity
 - b) Number similarity
 - c) Figure similarity
 - d) Relation between number and signs
 - e) Relation between alphabets and signs
- 6) **Code Language**
 - a) Use of numbers in place of letters
 - b) Use of signs in place of numbers
 - c) Use of numbers in place of numbers
 - d) Mixed number coding
- 7) **Puzzle Questions**
 - a) Place in row
 - b) Venn diagram
 - c) Statement and assumptions
 - d) Number coding square, circle and figure
 - e) Cube
 - f) Pyramid