

# **CAT SESSION PLAN-2024**

<b>Section Name</b>	<b>No. of Questions</b>	<b>Times Allotted</b>
<b>Quantitative Aptitude</b>	<b>22</b>	<b>40 minutes</b>
<b>Logical Reasoning &amp; Data Interpretation</b>	<b>20</b>	<b>40 minutes</b>
<b>Verbal Ability &amp; Reading Comprehension (VARC)</b>	<b>24</b>	<b>40 minutes</b>

## **CAT Quantitative Aptitude Syllabus**

- **Arithmetic**
  - **Algebra**
  - **Geometry**
  - **Modern Maths**
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# ARITHMETIC

## NUMBER SYSTEM

- Properties of Numbers
- Multiplication & Squares
- Division & Remainder
- Factors
- Unit Digit
- Tens Digit
- Number of zeros
- Alpha Numeric

## LCM & HCF

- \* Basics of LCM
- \* Basics of HCF
- \* Application of LCM

## LINEAR EQUATION

- \* Solving Linear Equation
- \* Integral solution of a Linear Equation
- \* Graphs of Linear Equation
- \* Word Problems

## PERCENTAGE

- \* Basics of Percentage
- \* Important Concepts
- \* Successive percentage

## Application of Percentage

- \* Profit & Loss
- \* Important Tricks
- \* Dishonest Dealer
- \* Discount

## INTEREST

- \* Simple Interest
- \* Compound Interest
- \* Installment

## Ratio & Proportion

- \* Basics of Ratio
- \* Basics of Proportion
- \* Types of Proportion
- \* Properties of Proportion

## MIXTURE & SOLUTION

- \* Mixture
- \* Replacement
- \* Alligation

## AVERAGE & AGE

- \* Average
- \* Weighted Average
- \* Age Problems

## Time, Speed & Distance

- \* Basics of TSD
- \* Average Speed
- \* Relative Speed
- \* Circular Motion
- \* Boats & Stream
- \* Race & Clock

## Time & Work

- \* Man, Days, Time & Work
  - \* One Unit of Work
  - \* Pipe & Cistern
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# ALGEBRA

## PROGRESSION

- \* Arithmetic Progression
- \* Geometric Progression
- \* Harmonic Progression
- \* Arithmetico Geometric
- \* Special Series

## INEQUALITIES

- Properties of Inequalities
- Type-1: Linear Inequalities
- Type-2: Rational Inequalities
  - > When power of factor is 1
  - > When power of factor is > 1 and Odd
  - > When power of factor is Even
  - > When power of factor is Even & Odd
- Type-3 : Quadratic Inequalities
- Type-4 : Root Inequalities
- Type-5 : Modulus Inequalities
- Type-6 : Logarithmic Inequalities

## LOGARITHMS

- Laws of Logarithms
- Graphs of Logarithms
- Solution of Logarithmic equation
- Characteristic and Mantissa of a Logarithm

## QUADRATIC EQUATION

- Method of Solving Quadratic Equation
- Nature of Quadratic Equation
- Sum of roots, Product of roots
- Number of Solutions
- Maxima & Minima
- Graph of Quadratic equation
- Higher Degree Equations

## GRAPHS & FUNCTIONS

- \* Graphs
- \* Domain & Range
- \* Functions

## Surds & Indices

- Algebraic Formulae
- Indices
- Surds

# GEOMETRY

## GEOMETRY

- Lines & Angles
- Triangles
- Polygon
- Circle

## MENSURATION (Plane Figures)

- \* Triangles
- \* Quadrilaterals
- \* Circle

## MENSURATION (Solid Figures)

- \* Cuboid
- \* Cube
- \* Cylinder
- \* Cone
- \* Sphere & Hemi sphere
- \* Prism
- \* Pyramid
- \* Frustum

## MODERN MATHS

- \* Principal of Counting
  - \* Permutation
  - \* Combination
  - \* Probability
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## **LOGICAL REASONING & DATA INTERPRETATION**

<b>SL. NO.</b>	<b>SESSION NAME</b>	<b>SESSION DETAILS</b>
1	LR-1	Linear & Circular Sitting Arrangement
2	LR-2	Sequencing & Ordering Sitting Arrangement
3	LR-3	Clock & Calendar
4	LR-4	Cubes & Cuboid
5	LR-5	Venn Diagram(Sets)
6	LR-6	Puzzles (Table Based)
7	LR-7	Mathematical Puzzles (CASELETS)
8	LR-8	Routes & Networks
9	LR-9	Games & Tournaments
10	LR-10	Blood Relation based puzzles
11	LR-11	Syllogism
12	DI-1	Bar Graphs based DI
13	DI-2	Line Graphs based DI
14	DI-3	Tables based DI
15	DI-4	Mixed Practice DI
14	DI-5	Reasoning Based DI
16	DI-6	3D Diagrams

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