

# SAI International School

## SAI Entrance Test (SET) - 2024

### Class-XI (Science)

### Syllabus

<b>FORMAT OF SET CLASS XI(SCIENCE)</b>			
<b>Total Questions: 150 no</b>		<b>Time: 120 mins</b>	
<b>Part</b>	<b>Subject</b>	<b>Question Number</b>	<b>Number of Questions</b>
PART-I	English	1 to 25	25
PART-II	MAT	26 to 50	25
PART-III	Physics	51 to 75	25
PART-IV	Chemistry	76 to 100	25
PART-V	Biology	101 to 125	25
PART-VI	Mathematics	126 to 150	25

#### **ENGLISH**

1. **Reading:** Comprehension
2. **Grammar:**
  - (a) Tenses
  - (b) Voice
  - (c) Determiners
  - (d) Prepositions
  - (e) Subject -Verb Agreement
  - (f) Reported Speech
  - (g) Modals
  - (h) Non- Finite Verbs
3. **Vocabulary:** Antonyms & Synonyms

#### **MENTAL ABILITY TEST**

1. Verbal and Non-Verbal Analogy
2. Verbal and Non-Verbal Series
3. Classification
4. Coding-Decoding
5. Alphabet and Number Test
6. Blood Relations
7. Distance and Direction
8. Paper Cutting and Folding
9. Venn Diagrams
10. Mathematical Operations

11. Calendar, Time and Clock
12. Missing Characters
13. Embedded Figures
14. Ranking and Arrangements
15. Word Problems
16. Cube and Dice
17. Water and Mirror Images
18. Sequence and Series

## **PHYSICS**

1. Motion in a Straight Line
2. Force & Laws of Motion
3. Friction
4. Gravitation
5. Floatation
6. Work, Energy & Power
7. Sound
8. Reflection & Refraction of Light, Mirror, Lenses & Prism
9. Human Eyes & Colourful World
10. Electric Current, Heating Effect of Current
11. Magnetism, Magnetic Effect of Current
12. Electromagnetic Induction, Motors, Generators

## **CHEMISTRY**

1. Matter in Our Surrounding
2. Is matter Around us Pure?
3. Atoms & Molecules
4. Structure of Atom
5. Gases State of Matter
6. Chemical Equation & Reactions
7. Acid Base & Salts
8. Metal & Non-metal
9. Carbon and its Compound
10. Electrolysis
11. Metallurgy

## **BIOLOGY**

1. Cell & its Organisation
2. Tissue system

3. Natural Resources & Pollutions
4. Nutritions
5. Transport in Plants
6. Photosynthesis in Plants
7. Circulation
8. Excretion
9. Control & Co-ordinations in Plants & Animals
10. Reproductive System in Organisms
11. Genetics-Heredity in our Environment

## **MATHEMATICS**

1. Number System
2. Polynomials
3. Lines and Angles
4. Circles
5. Mensuration
6. Real Numbers
7. Polynomials
8. Quadratic Equations
9. Pairs of Linear Equation in Two Variables
10. Arithmetic Progression
11. Trigonometry

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