

SYLLABUS FOR ADMISSION TEST FOR ADMISSION TO CLASS XI 2024-25

PHYSICS

Chapter – 10: Light – Reflection and Refraction.

Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification. Refraction; Laws of refraction, refractive index. Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula (Derivation not required); Magnification. Power of a lens

Chapter – 11: Human eye and Colourful World.

Functioning of a lens in human eye, defects of vision and their corrections, applications of spherical mirrors and lenses. Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life (excluding colour of the sun at sunrise and sunset).

Chapter – 12: Electricity.

Electric current, potential difference and electric current. Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R.

Chapter number refers to :

Science-Text book for Class X- NCERT Publication

CHEMISTRY

CHAPTER – I

CHEMICAL REACTIONS AND EQUATIONS

CHAPTER – 2

ACIDS, BASES, AND SALTS

CHAPTER – 3

METALS AND NON-METALS

CHAPTER – 4

CARBON AND ITS COMPOUNDS

(page no. 58 to 68; NCERT text book)

MATHEMATICAL APTITUDE

1. Polynomials
2. Pair Of Linear Equations In Two Variables
3. Quadratic Equations
4. Introduction To Trigonometry
5. Some Applications Of Trigonometry – Problems On Heights And Distances
6. Statistics – Mean, Median And Mode (No Graph)
7. Surface Areas And Volumes .

MATHEMATICS

1. Polynomials
2. Pair Of Linear Equations In Two Variables
3. Quadratic Equations
4. Introduction To Trigonometry
5. Some Applications Of Trigonometry – Problems On Heights And Distances
6. Statistics – Mean, Median And Mode (No graph)
7. Geometry – Similar Triangles (including Basic Proportionality Theorem).
8. Surface Areas And Volumes.
9. Areas related to Circles

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ENGLISH

READING: COMPREHENSION

UNSEEN PROSE

(PASSAGE/EXTRACT FOLLOWED by VSAQ's & MCQ's INCLUDING VOCABULARY)

WRITING: COMPOSITION

LETTER WRITING (FORMAL & INFORMAL)

COMPOSITION: (any one)

STORY WRITING (BASED ON VERBAL OR VISUAL INPUT)

Or

NARRATIVE, DESCRIPTIVE, ARGUMENTATIVE

(in about 250-300 words)

GRAMMAR

GAP-FILLING, SENTENCE COMPLETION /DIALOGUE-COMPLETION, REORDERING WORD GROUPS INTO SENTENCES, EDITING PASSAGES, OMISSION, SENTENCE TRANSFORMATION

TOPICS:

ARTICLES, TENSES, PREPOSITIONS, CONJUNCTIONS

NON-FINITES CONDITIONALS SUBJECT –VERB CONCORD

DIRECT & INDIRECT SPEECH ACTIVE & PASSIVE VOICE