

SYLLABUS FOR ADMISSION TEST FOR ADMISSION TO CLASS XI 2027-28
(NON-BHS STUDENTS)

PHYSICS

Chapter – 09: Light – Reflection and Refraction.

Reflection ; Laws of reflection ; Reflection of light by plane mirror ; Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, Sign convention for reflection by spherical mirror, mirror formula ,magnification. Refraction; Laws of refraction, refractive index. Refraction of light by spherical lens; Image formed by spherical lenses; Sign convention for spherical lenses. Lens formula; Magnification. Power of a lens.

Chapter – 10: Human eye and colourful world.

Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life. Phenomena related to atmospheric refraction.

Chapter - 11: Electricity

Electric Current and Circuit, Electric Potential and Potential Difference, Circuit Diagram, Ohm's Law, Factors affecting the resistance of a conductor, Combination of Resistances in Series and in Parallel, Heating effect of Electric Current and its application. Electric Power.

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

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

10 marks

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

WRITING: COMPOSITION LETTER WRITING

(FORMAL & INFORMAL)

10 marks

COMPOSITION: (any one)

STORY WRITING (BASED ON VERBAL OR VISUAL INPUT)

Or

NARRATIVE, DESCRIPTIVE, ARGUMENTATIVE

(in about 250-300 words)

20 marks

GRAMMAR

10 marks

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