

**ALLEN**  
CAREER INSTITUTE  
PRE-NURTURE & CAREER FOUNDATION (PNCF)  
SELF EVALUATION TEST SCHEDULE & SYLLABUS [Academic Session : 2024-25]

		TARGET : CLASS 10							
Test No.	Test Type	Test Date	Physics	Chemistry	Biology	Maths	English	SST	Mental Ability
1	Minor Test - 1	09 June 2024	<b>Optics, Reflection of Light</b> : Light - sources of light, Nature & properties of light, Production of electromagnetic (EM) waves, EM & visible light spectrum, Objects (Luminous & non-luminous), Opaque, transparent & translucent objects, some basic terms, Shapes of beam of light, Reflection of light (Phenomenon, laws, basic terms, types of reflection), Reflection from plane mirrors (Some basic terms, point & extended object, types of images, properties of image formed by plane mirrors, Reflection from spherical mirrors (Types, basic terms, Concave & convex mirrors, some basic terms related to spherical mirrors), Rules to obtain images in spherical mirrors	<b>Chemical reactions and equations</b> -physical and chemical changes, chemical reaction and its characteristics, chemical equations (word equation and symbol equation), rules for writing the chemical equation, balancing of equation, naming chemical equation more informative, Types of chemical reactions - Combination, decomposition, Thermal decomposition, photo decomposition, electro decomposition, Displacement reaction, double displacement reaction	Nutrition	Pair of Linear Equations in Two Variables	A Letter to God, Root of Snow, A Triumph of Surgery, Integrated Grammar Exercises (Gap Filling)	The Rise of Nationalism in Europe, Resources and Development	Verbal Series, Non Verbal Series, Dot Situation, Completion Of Incomplete Pattern
2	Minor Test - 2	23 June 2024	<b>Optics, Reflection of Light</b> : Image formation by a concave mirror, use of concave mirrors, Image formation by a convex mirror, use of convex mirrors, Sign convention for reflection by spherical mirrors, Formulas related to spherical mirrors (Relationship between radius of curvature & focus, Mirror formula, Magnification), Some important points related to spherical mirrors	<b>Chemical reactions and equations</b> -oxidation and reduction reactions, corrosion, reactivity <b>Acids, bases and salts</b> -properties and classification of acids and bases, Indicators (litmus solution, phenolphthalein, methyl orange), reaction of acids and bases with metals, reaction of acid with metal carbonates and hydrogen carbonates, reaction of acid and bases with each other, reaction of a non-metallic oxide with a base, reaction of a metallic oxide with acids	Respiration	Polynomials	Nelson Mandela : Long Walk to Freedom, Fire and Ice, The Thief's Story, Letter Writing, Integrated Grammar Exercises (Editing)	Power Sharing, Development, Nationalism in India	Coding & Decoding, Mirror & Water Images
3	Minor Test - 3	07 July 2024	<b>Optics, Refraction of Light</b> : Introduction, Fermat's principle, least time, Refraction of light (Phenomenon, some basic terms), Laws of refraction (Snell's law, angle of deviation, absolute & relative refractive index), Refraction through a glass slab, Apparent depth, Lens (Types of lenses, basic terms used in lenses), Rules to obtain images in spherical lenses	<b>Acids, bases and salts</b> -What do all acids and all bases have in common? pH scale, importance of pH in everyday life, Salts (formation of salts, Families of salts left of salts - chemicals from common salts - sodium hydroxide, Bleaching powder, baking soda, washing soda, Are the crystals of salts dry? P.P)	Transportation	Real Numbers	A Tiger in the Zoo, Two Stories About Plying, The Midnight Visitor, Integrated Grammar Exercises (Omission)	Federalism, Water Resources, Sectors of the Indian Economy	Logical Venn Diagram, Logical Sequence of Words, Paper Folding & Paper Cutting
4	Minor Test - 4	21 July 2024	<b>Optics, Reflection of Light</b> : Image formation by convex lens, Image formation by concave lens, Sign convention for lens, Formulas related to lens (Lens formula, magnification), Power of lens, Some important points related to lenses <b>The Human Eye &amp; The Colourful World</b> : Human eye (Components & structure, working of eye, roles of various parts of eye)	<b>Metals and Non Metals</b> -physical properties of metals, lustre of metals, hardness, malleability, ductility, conductivity, electrochemical properties of non-metals and chemical properties of metals-reaction of metals with oxygen, Reaction of metals with water, reaction of metals with acids, extraction of metals with solutions of other metal salts, reactions of metals with non metals	Excretion	Introduction to Trigonometry	From the Diary of Anne Frank, The Ball Poem, Analytical Paragraph Writing, Integrated Grammar Exercises (Reported Speech Gap Filling)	Forest and Wildlife Resources, The Age of Industrialisation	Direction Sense Test, Puzzle test
5	Minor Test - 5	28 July 2024	<b>The Human Eye &amp; The Colourful World</b> : Power of accommodation (Power of accommodation, near & far point, how we see colours, Colour blindness, Cataract), Defects of vision & their corrections (Myopia, Hypermetropia, Presbyopia), Refraction of light through a prism, Dispersion of white light by a prism & glass slab, Newton's setup of two prisms to get back white light, The Rainbow, formation of rainbow, Atmospheric refraction & related phenomena, Scattering of light & related phenomena	<b>Metals and Non Metals</b> - general properties of ionic compound, Occurrence of metals- native state and combined state, minerals and ores, Extraction of metals (metallurgy- crushing and grinding of ore, concentration of ore, extraction of metals from the enriched ore - extraction of metals low in the reactivity series, extraction of metals in the reactivity series, extraction of metals high in the reactivity series, Refining, corrosion, alloys	Control and Coordination	Similar Triangles, Statistics	A Question of Trust, Footprints Without Feet, Integrated Grammar Exercises (Gap Filling)	Gender, Religion and Caste, Agriculture, The Making of a Global World	Number, Ranking & Time Sequence Test, Mathematical Operation, Alphabet Test
6	Advance Test - 1	04 August 2024	<b>Light, Motion</b>	<b>Chemical Reactions and Equations, Acids, Bases and Salts</b> (From Introduction to pH Scale), Matter in Our Surroundings	Nutrition, Respiration, Transportation, Gas	Linear Equations in Two Variables, Polynomials, Coordinate Geometry, Lines and Angles, Triangles, Percentage, Profit, Loss and Discount	NA	The Rise of Nationalism in Europe, Resources and Development, Power Sharing, Development, Nationalism in India, Federalism, Water Resources, The Rustle Revolution, Socialism in Russia and the Russian Revolution, What is Democracy? Why Democracy?, India Size And Location, Physical Features of India, The Story of Village Palampur	Verbal Series, Non Verbal Series, Dot Situation, Coding & Decoding, Mirror & Water Images, Logical Sequence of words, Number, Ranking & Time Sequence test, Analytical Reasoning, Inserting the Missing Character
7	Advance Test - 2	11 August 2024	<b>Heat, Force and NLM, Gravitation</b>	<b>Acids, Bases and Salts</b> (From Salts to POP), Metals and Non Metals, Matter Around Us Pure	Excretion, Control and Coordination, Tissue	Number System, Surds and Indices, Quadrilaterals, Area of Parallelogram and Polygon, Probability, Partnership, Mixtures and Alloys, Simple and Compound Interest	NA	Sectors of the Indian Economy, Forest and Wildlife Resources, The Age of Industrialisation, Gender, Religion and Caste, Agriculture, The Making of a Global World, Nation and the Rise of Hitler, Constitutional Design, Drainage, People as resource	Alphabet Test, Alphanumeric Sequence Puzzle, Logical Venn Diagram, Spotting and the Embedded Figure, Arithmetical Reasoning, Puzzle Test
8	Major Test - 1	18 August 2024	NA	Full Syllabus of Set-1	NA	Full Syllabus of Set-1	NA	NA	NA
9	Major Test - 2	25 August 2024	Full Syllabus of Set-1	NA	Full Syllabus of Set-1	NA	NA	NA	NA
10	Major Test - 3	01 September 2024	NA	NA	NA	NA	Full Syllabus of Set-1	NA	NA
11	Major Test - 4	15 September 2024	NA	NA	NA	NA	NA	Full Syllabus of Set-1	NA
12	Minor Test - 1	29 September 2024	<b>Electricity</b> : Electricity, Static electricity & its source, Electric charge, Properties of electric charge, Unit of electric charge, Coulomb's law, Electric potential, Potential difference, Conductor & insulator, Current electricity, Electric circuit, Measuring potential difference and current	<b>Carbon and its compounds</b> - covalent bonding, necessary conditions for covalent bond, classification of covalent bond, formation of covalent compounds, characteristics of covalent compounds.	How do Organisms Reproduce - Introduction, Significance of Reproduction, Types of reproduction, (i) Fission (ii) Budding, (iii) Regeneration (iv) Fragmentation (v) Spore formation (vi) Vegetative propagation, Sexual reproduction, Differences between asexual and sexual reproduction, Sexual reproduction in flowering plants, Pollination, Fertilization	Quadratic Equations	Glimpses of India, The Making of a Scientist, How to Sell Wild Animals, Integrated Grammar Exercises (Gap Filling)	Minerals and Energy Resources	Alpha-Numeric Sequence Puzzle, Verbal & Non Verbal Analogy & Classification
13	Minor Test - 2	06 October 2024	<b>Electricity</b> : Electric resistance, Ohm's law, Resistance, Dependence of resistance on length, area of cross-section and nature of material, Resistivity, Effect of stretching a wire & doubling a wire on its resistance, Condition for wires of equal length but of two different materials to have the same resistance	<b>Carbon and its compounds</b> -allotropes of carbon - diamond, graphite, fullerene, Versatile nature of carbon, valence force theory, Saturated and unsaturated compounds	How do Organisms Reproduce - Human reproductive system, Male reproductive system, Reproductive health	Heights and Distances, Arithmetic Progressions	Might of the Ditch, The Trees, The Necklace, Integrated Grammar Exercises (Editing)	Print Culture and the Modern World, Money and Credit	Blood Relation, Spotting Out the Embedded Figure
14	Minor Test - 3	13 October 2024	<b>Electricity</b> : Resistors in series, Resistors in parallel, Heating effect of electric current, Electric power & electric energy, Joule's law of heating, Applications of thermal effects of current (Electric bulb, Electric fuse)	<b>Carbon and its compounds</b> -Chains, branches and rings, homologous series, functional groups, IUPAC Nomenclature	Heredity - Introduction, Gregor Johann Mendel (Mendel's experiment, Advantages of pea plant, Pair of allelic characters found in garden pea plant, Monohybrid cross, Dihybrid cross, Laws of inheritance, Sex determination	Circles	Madam Rides the Bus, Fig. Amanda, The Sermon at Benares, Integrated Grammar Exercises (Omission)	Political Parties, Manufacturing Industries	Inserting The Missing character, Dice & Cube
15	Minor Test - 4	20 October 2024	<b>Magnetic Effects of Electric Current</b> : Magnetism, Permanent magnets (Magnetic poles, Properties of a bar magnet, Natural & artificial magnets), Magnetic field, Magnetic field lines and their properties, Uniform & non-uniform magnetic fields, How to make a permanent magnet, Uses of magnets, Electric current as a source of magnetism (Magnetic field due to a current-carrying straight conductor, Right hand thumb rule, Magnetic field due to a current-carrying circular loop)	<b>Carbon and its compounds</b> -Chemical properties of organic compounds - combustion, oxidation, addition, substitution.	Our Environment	Coordinate Geometry	The Tale of Custard the Dragon, Abhol, For Anam's daughter, Integrated Grammar Exercises (Reported Speech Gap Filling)	Lifelines of National Economy, Globalisation and the Indian Economy	Analytical Reasoning, Arithmetical Reasoning
16	Minor Test - 5	27 October 2024	<b>Magnetic Effects of Electric Current</b> : Magnetic field of a solenoid, Electromagnet, Force on a current-carrying conductor in a magnetic field (Fleming's left hand rule, Magnetic force on a current-carrying conductor & moving charge), AC & DC with their advantages & disadvantages, Domestic electric circuits, Overloading & Short-circuiting	<b>Carbon and its compounds</b> -Ethanol - properties and uses, Ethanoic acid - properties and uses, soaps and detergents.	How do organisms reproduce, Heredity	Areas Related to Circles, Surface Areas and Volumes	The Proposal, The Book that Saved the Earth, Integrated Grammar Exercises (Gap Filling)	Outcomes of Democracy	Figure Matrix, Figure Formation, Construction of Shapes & Grouping of Identical Figures
17	Advance Test - 1	10 November 2024	<b>Electricity, Thrust and Pressure, Work, Energy, Power</b>	<b>Carbon And its Compounds, Atoms And Molecules</b>	Reproduction in Plants and Animals, Heredity and Evolution, Improvement in Food Resources, Natural resources	Trigonometry and its Applications, Quadratic Equations, Circles and Tangent to the circle, Ratio and Proportion, Time, Speed and Distance	NA	Minerals and Energy Resources, Print Culture and the Modern World, Money and Credit, Political Parties, Forest Society and Colonisation, Electoral Politics, Working of Institutions, Climate, Poverty As a Challenge	Completion Of Incomplete Pattern, Direction Sense Test, Blood Relation, Paper Folding and Paper cutting, Calendar, Mathematical Operation, Dice & Cube
18	Advance Test - 2	17 November 2024	<b>Magnetic Effects of Electric Current, Sources of Energy, Waves and Sound</b>	<b>Periodic Classification Of Elements, Structure Of An Atom</b>	Our Environment, Management of Natural Resources, Diversity In Living Organisms, Why do we Fall Ill ?	Arithmetic Progression, Measurement of Plane Figures, Measurement of Solid Figures, Statistics, Unitary Method, Time and Work, Pipes and Cisterns, Problems on Ages	NA	Manufacturing Industries, Lifelines of National Economy, Globalisation and the Indian Economy, Outcomes of Democracy, Personalities in the Modern World, Democratic Rights, Natural Vegetation and Wildlife, Population, Food Security in India.	Statement Conclusion, Verbal Analogy, Non verbal Analogy, Verbal Classification, Non Verbal Classification, Clock, Sequential Output Tracing, Data Sufficiency, Figure Matrix, Figure Formation, Grouping of Identical Figure, Construction of shapes
19	Major Test - 1	01 December 2024	NA	NA	NA	Full Syllabus	NA	NA	NA
20	Major Test - 2	08 December 2024	Full Syllabus	Full Syllabus	Full Syllabus	NA	NA	NA	NA
21	Major Test - 3	15 December 2024	NA	NA	NA	NA	Full Syllabus	NA	NA
22	Major Test - 4	22 December 2024	NA	NA	NA	NA	NA	Full Syllabus	NA

NOTE: 1. MINOR TEST & ADVANCE TEST WILL BE BASED ON OBJECTIVE PATTERN. MAJOR TEST WILL BE BASED ON SUBJECTIVE PATTERN.  
2. SELF EVALUATION TEST PAPERS WILL BE AVAILABLE IN DOWNLOADABLE & PRINTABLE FORMAT ON DSAT ALLEN.AC.IN  
3. ADVANCE TEST WILL BE BASED ON NTSE PATTERN COVERING NCERT SYLLABUS