PRE-NURTURE & CAREER FOUNDATION (PNCF)
SELF EVA LUATION TEST SCHEDULE & SYLLABUS [Academic Session : 2022 - 23]

ALLEN® CAREER INSTITUTE KOTA (RAJASTHAN) path to success

TARGET : CLASS 9

Test No.	Test Type	Test Date	Physics	Chemistry	Biology	Maths	English	SST	Mental Ability
1	Minor Test - 1	05/06/2022	**Motion :** Motion, Types of motion (all types with examples), Concept of a point object (or particle), Describing motion (Rest & motion are relative terms, origin or reference point), Scalar & vector quantities with examples, Distance & displacement, Uniform & non-uniform motion, Speed (Uniform, non-uniform, average & instantaneous speed), Cases of half-journey, Velocity (Uniform, non-uniform, average & instantaneous velocity)	**Matter In Our Surroundings** -definition of matter , physical and chemical classification of matter , Physical nature of matter (continuous,particulate) Activity to show -Matter is made of particles & Size of particles ,Characteristics of particles of matter(Particles of matter have space between them,Particles of matter are continuously moving, Particles of matter attract each other) States of matter - Characteristics of Solids , liquids & Gases	**The Fundamental Unit of Life** - Discovery of cell,Structure of cell:Cell membrane,cell wall.	Number System	The Fun They Had, The Road Not Taken, The Lost Child, Integrated Grammar Exercises (Gap Filling)	The French Revolution, India- Size & Location	Verbal & Non verbal Series
2	Minor Test - 2	19/06/2022	**Motion :** Acceleration (Accelerated & retarded motion, uniform & non-uniform acceleration), Equations of uniformly accelerated motion (1st equation of motion, 2nd equation of motion, 3rd equation of motion), Graphical representation of motion (Distance/ displacement-time graph, speed/ velocity-time graph), Equations of motion by graphical method	**Matter In Our Surroundings**- Effect of temperature on states of matter - Latent heat of fusion and vaporization,Effect of pressure on states of matter , Evaporation-factors affecting the evaporation,uses of evaporation in every day life, evaporation causes cooling, Plasma, BEC	**The Fundamental Unit of Life** - Nucleus,Cytoplasm,Cell organelles, Differences between plant cell and animal cell ,Cell Division, Differences between prokaryotes and eukaryotes.	Polynomials	The Sound of Music, Wind, The Adventures of Toto, Integrated Grammar Exercises (Error Spoting)	The Story of Village Palampur, What is Democracy? Why Democracy?	Coding & Decoding, Mirror & Water Images
3	Minor Test - 3	03/07/2022	**Motion :** Circular motion (Uniform circular motion, radian, angular displacement, angular velocity, Relation between linear speed & angular velocity, centripetal acceleration) **Force and Laws of Motion :** Introduction (Types of forces - contact & non-contact forces), Effects of force, Net force, Balanced and unbalanced forces, Equilibrium, Galileo's inclined planes, Concept of inertia, Newton's 1st law of motion, Types of inertia with examples, Linear momentum	**Is matter around us pure**-Definition and characteristics of pure substance and impure substance ,types of mixtures -homogeneous and heterogeneous,Activity to describe the properties of true solution, colloides , suspension.Characteristics of solution ,Alloys ,concentration of solution-mass / mass percentage,mass/volume percentage,volume/volume percentage	**Tissues** - Definition,Plant tissue.(upto phloem)	Introduction to Euclid's Geometry, Co-ordinate Geometry	The Little Girl, Rain on the Roof, A Truly Beautiful Mind, Iswaran the Storyteller, Integrated Grammar Exercises (Omission)	Physical Features of India, Socialism in Europe and the Russian Revolution	Direction Sense Test, Inserting The Missing Character
4	Minor Test - 4	17/07/2022	**Force and Laws of Motion : Newton's second law of motion, Applications/ results of Newton's second law of motion, Newton's third law of motion with examples/ applications, Conservation of momentum Gravitation : Gravitation, The Newtonian gravitation, Newton's Universal law of gravitation, Characteristics of gravitational force, Importance of Newton's universal law of gravitation, Why Moon doesn't fall on Earth?**	**Is Matter Around Us Pure**- Types of solution on the basis of concentration,solubility ,characteristics of suspensions ,characteristics properties of colloidal solution,Separation techniques-Evaporation, centrifugation,separating funnel,sublimation	**Tissues** - Protective tissue,Animal tissue,Epithelial tissue,Connective tissue-Loose connective and adipose tissue,Fluid Connective tissue.	Lines and Angles, Triangles	The Lake Isle of Innisfree, The Snake and the Mirror, In the Kingdom of Fools, Descriptive Paragraph (Person), Integrated Grammar Exercises (Reported Speech Gap Filling)	Constitutional Design, People as Resource	Number,Ranking & Time Sequence Test,Completion of Incomplete Pattern,Dot Situation
5	Minor Test - 5	31/07/2022	**Gravitation :** Kepler's laws of planetary motion, Free fall, Acceleration due to gravity on a planet, Equations of motion of a freely falling body, Variation of 'g' with height, Mass, Weight (Weight of an object, weightlessness, weight of an object on Moon)	**Is Matter Around Us Pure**- Separation techniques- Chromatography,Simple distillation,fractional distillation, fractional distillation of air, Crystallisation,treatment of water,Physical and chemical changes,Types of pure subsatances - Element (metals and non-metals), compounds	The Fundamental Unit of Life	Heron's Formula, Linear Equations in Two Variables	A Legend of Northland, My Childhood, The Happy Prince, Story Writing, Integrated Grammar Exercises (Gap Filling)	Nazism and the Rise of Hitler, Drainage	Alphabet Test, Alpha-Numeric Sequence Puzzle, Spotting Out the Embedded Figure
6	Major Test - 1	28/08/2022	NA	NA	NA	Full Syllabus of Set-1	NA	NA	NA
7	Major Test - 2	31/08/2022	Full Syllabus of Set-1 (SCIENCE)			NA	NA	NA	NA
8	Major Test - 3	04/09/2022	NA	NA	NA	NA	Full Syllabus Set-1	NA	NA
9	Major Test - 4	07/09/2022	NA	NA	NA	NA	NA	Full Syllabus of Set-1	NA
10	Advance Test - 1	11/09/2022	Motion	Matter Around Us	Cell - Unit of Life , Tissues (Plant Tissues)	Number System, Surds and Indices, Polynomials (Factorisation), Polynomials (Remainder and Factor theorem), Percentage, Profit, Loss and Discount	NA	NA	Verbal Series, Non Verbal Series,Coding & Decoding, Dot Situation,Number ,Ranking & Time Sequence Test
11	Advance Test - 2	14/09/2022	Force and Newton's Laws of Motion, Gravitation	Classification Of Materials	Tissues (Animal Tissues), Improvement in Food Resources	Linear Equations in two Variables, Lines and Angles, Triangles, Partnership, Mixtures and Alligations, Simple and Compound Interest, Installments	NA	NA	Direction Sense Test,Completion of Incomplete Pattern,Spotting out the Embedded Figure, Inserting the Missing Character, Alphabet Test, Alpha-Numeric Sequence Puzzle,Mirror & Water images
12	Minor Test - 1	18/09/2022	**Thrust and Pressure : Introduction, Thrust, Pressure, Some more examples related to pressure, Pressure in a fluid (Pascal's law, Some more examples related to fluid pressure, hydraulic lift), Density of a substance, Relative density, Buoyancy & Its cause, Archimedes' principle & its applications, Apparent weight**	**Atoms and molecules** - Introduction , laws of chemical combination- law of conservation of mass,law of constant proportions, Dalton's atomic theory - postulates and drawbacks,Atom , atomic symbols, Atomic masses , How do atoms exit ? -Molecules of elements and molecules of compounds	Improvement in Food Resources (Introduction to Crop Production managements)	Quadrilaterals	Reach for the Top, No Men Are Foreign, Integrated Grammar Exercises (Gap Filling)	Electoral Politics, Climate	Logical Venn Diagram,Logical Sequence Of Words,Verbal & Non Verbal Analogy & Classification
13	Minor Test - 2	25/09/2022	**Thrust and Pressure : Sinking & floating, Changing buoyant force (Floatation of metal ships), Measuring relative density of a solid using Archimedes' principle, Melting of ice floating on water Work and Energy : Introduction, The concept of Work, Mathematical definition of work, Concept of positive & negative work, Work done by applied force against gravity**	**Atoms and molecules** -What is an ion,valency of some cations and anions, writing chemical formula,Molecular mass,Mole concept	Improvement in Food Resources (Crop Protection managements to Bee Keeping)	Statistics	The Last Leaf, Integrated Grammar Exercises (Editing)	Poverty as a Challenge, Natural Vegetation and Wildlife	Blood Relation , Mathematical Operation, Paper Folding & Paper Cutting
14	Minor Test - 3	02/10/2022	**Work and Energy :** Energy, Forms of energy (Kinetic energy, Work-energy theorem, Potential energy- gravitational & elastic potential energy), The law of conservation of energy, Power, Commercial unit of energy, Kinetic energy-momentum relationship	**Structure of atom-** Introduction , discovery of electrons , properties of cathode rays , determination of charge by mass ratio of electron,discovery of protons,Thomson's model of an atom, Rutherford model of an atom	The Fundamental Unit of Life	Circles	On Killing a Tree, A House is not a Home, Integrated Grammar Exercises (Omission)	Working of Institutions, Forest Society and Colonialism	Puzzle test
15	Minor Test - 4	09/10/2022	**Sound : Introduction, Waves, Mechanical & non-mechanical waves, Amplitude & equilibrium position, Transverse & longitudinal waves, Some basic terms related to waves (Wavelength, time period, frequency, wave speed), Sound waves, Propagation of sound, Sound needs a medium for propagation, Speed of sound in different media, Graphs of transverse & longitudinal waves, Audible & inaudible sounds, Infrasonic & ultrasonic sounds**	**Structure of Atom** - Bohr's model of an atom , Discovery of neutrons , Atomic number and mass number,Distribution of electrons in different orbits,Valency of elements, isotopes, applications of isotopes,calculation of average atomic mass of an element from the mass number of its isotopes	Tissues	Surface Areas & Volumes - Surface areas and volumes of spheres (including hemispheres)	If I Were You, Kathmandu, Integrated Grammar Exercises (Reported Speech Gap Filling)	Population, Democratic Rights	Analytical Reasoning, Dice & Cube
16	Minor Test - 5	16/10/2022	**Sound :** Characteristics of audible sounds (Pitch, loudness, quality), Tone & note, Subsonic & supersonic speed, Sonic boom, Noise & music, Reflection of sound, Echo, Reverberation, Uses of reflection of sound, Applications of ultrasound, SONAR, The human ear, hearing impairment, hearing aid	**Some important topics :** Formula writing,Laws of chemical combination, average atomic mass, Mole concept, isotopes,Rutherford's model, cathode rays	Improvement in Food Resources	Surface Areas & Volumes	A Slumper did my Spirit Seal, The Beggar, Integrated Grammar Exercises (Gap Filling)	Food Security in India, Pastoralists in the Modern World	Arithmetical Reasoning, Figure Matrix, Figure Formation, Constrution of Square & Grouping of Identical Figures
17	Advance Test - 1	13/11/2022	Fluid Mechanics	Atoms And Molecules	Diversity in Living Organisms	Quadrilaterals, Circles, Probability, Ratio and Proportion, Time, Speed and Distance	NA	NA	Mathematical Operation,Logical Venn Diagram,Verbal Analogy & Classification,Non Verbal Analogy & Classification, Blood Relation,Paper Folding & Paper Cutting
18	Advance Test - 2	20/11/2022	Work, Energy, Power; Sound	Structure of Atom	Diseases, Natural Resources	Mensuration, Co-ordinate Geometry, Statistics, Unitary Method, Time and Work, Pipes and Cisterns, Problems on Ages	NA	NA	Logical sequence of words, Dice & Cube, Analytical Reasoning,Puzzle Test, Arithmetical Reasoning,Statement Conclusion, Figure Matrix, FigureFormation,Constrution of Square & Grouping of Identical Figures
19	Major Test - 1	04/12/2022	NA	NA	NA	Full Syllabus	NA	NA	NA
20	Major Test - 2	11/12/2022	Full Syllabus of Set-2 (SCIENCE)			NA	NA	NA	NA
21	Major Test - 3	18/12/2022	NA	NA	NA	NA	Full Syllabus Set-2	NA	NA
22	Major Test - 4	25/12/2022	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 OLYMPIAD PATTERN