

Minor Test No.	Test Type	Test Date	TARGET : (CLASS 9)						Mental Ability
			Physics	Chemistry	Biology	Maths	English	SST	
1	Minor test 1 (Objective)	30-06-2021	<p>Motion : Motion, Types of motion with examples, Concept of point object or particle, 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, Cases of half-journey</p>	<p>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</p>	<p>Cell (Fundamental Unit of Life): Introduction, Discovery of cell, Cell theory, Size and Shape of cell, Unicellular organisms vs multicellular organisms, Basic structure of the cell (A) Plasma membrane, Transport across Plasma membrane, (B) Cell wall, (C) Nucleus</p>	<p>Number System : Rational numbers, Rational number between two numbers, Decimal expansion of rational numbers, Method to convert non-terminating decimal to the form p/q form, Pure recurring Decimal Mixed recurring decimals, Irrational numbers, Real Numbers, Representation of real numbers on the number line by means of magnifying glass, Representation of irrational numbers on the number line, Operations on real numbers, Method to represent square root of x for any given positive real number x on number line geometrically</p>	<p>The Fun They Had, The Road Not Taken, Verb Forms & Tenses, Conditionals, Int. Gr. Ex. (Gap Filling)</p>	<p>The French Revolution- French Society during the late 18th Century, French Society during the Old regime, The Outbreak of Revolution, , France becomes a Constitutional Monarchy, The declaration of rights of man and citizens, Reading political symbols, France abolishes monarchy and becomes a republic, Formation of Jacobin Club, Did women have a revolution, The abolition of slavery, The revolution and everyday life, Conclusion, Legacy of French Revolution</p> <p>India- Size & Location- India and the world, India's neighbors, Story of Village Palampur - "Overview About palampur village, "Orgainsation of production" , Farming in Palampur - fixed land, how to grow more from the same land, green revolution. " Will the land sustain - distribution of land" Labour - who will provide the labour" " Capital needed in farming" Non farm activities</p>	<p>Verbal Series (Number Series) , Verbal Series (Alphabet, Alpha - Numeric Series)</p>
2	Minor test 2 (Objective)	14-07-2021	<p>Motion : Velocity - uniform, non-uniform, average, instantaneous velocity, Acceleration - uniform, non-uniform, accelerated & retarded motion, 1st equation of motion, 2nd equation of motion, 3rd equation of motion</p>	<p>Matter in Our Surroundings - Effect of temperature on state of matter - Latent heat of fusion and vaporization, Effect of pressure on states of matter .</p>	<p>Cell (Fundamental Unit of Life): (D) Cytoplasm, Cell Organelles (E) Endoplasmic reticulum (F) Golgi Complex, (G) Lysosomes (H) Mitochondria, (I) Plastids (J) Ribosomes, (K) Vacuoles, Difference between Plant cell and animal cell, Difference between Prokaryotes and eukaryotes</p>	<p>Number System : Some identities using radical sign, Laws of exponents</p> <p>Polynomials : Polynomial in one variable, Degree of polynomials, Zeroes/Roots of polynomial</p>	<p>The Lost Child, The Sound of Music, Modals, Subject Verb Agreement, Int. Gr. Ex. (Gap Filling)</p>	<p>People as Resource - Overview, Economic activities by Men and Women Quality of Population - Education, Health, Unemployment</p> <p>What is Democracy ? Why define Democracy ? - A simple Definition. Features of Democracy, Major decisions by elected leaders Free and fair electoral competition, One person, One vote, One value, Rule of law and respect for Rights, Summary definition</p> <p>Why Democracy ? Arguments against Democracy, Arguments for Democracy, Broader meanings of Democracy</p>	<p>Verbal Series (Continuous Pattern), Non-Verbal Series</p>
3	Minor test 3 (Objective)	28-07-2021	<p>Motion : Graphical representation of motion - distance/ displacement-time graph, speed/ velocity-time graph, Equations of motion by graphical method</p>	<p>Matter in Our Surroundings - Evaporation-factors affecting the evaporation, uses of evaporation in every day life, evaporation causes cooling, Plasma, BEC</p>	<p>Tissue : Introduction, Tissue, Plant tissue, 1. Meristematic tissue, Classification of meristematic tissue , Permanent tissue, Simple permanent tissue (i) Parenchyma (ii) Collenchyma (iii) Sclerenchyma</p>	<p>Polynomials : Remainder theorem, Factor Theorem Factorisation of polynomials (By splitting the middle term) Factorisation of quadratic polynomial, Factorisation of cubic polynomial by factor theorem</p>	<p>Wind, The Adventures of Toto, Tenses, Modals, SVA Int. Gr. Ex (Gap filling, Error Spotting)</p>	<p>Physical features of India- Theory of Plate Tectonics, Formation of Himalayas and the Northern Plain, The Himalayan Mountains - Himadri, Himachal, Shiwaliks, Himalayan division on the basis of regions from west to east, Purvanchal, The Northern Plains Ganga-Brahmaputra plains, division according to the variations in relief features., The Peninsular Plateau - Eastern and Western Ghats, The Indian Desert, The Coastal Plains, The Islands</p> <p>French Revolution - Revision India-Size and Location - Revision</p>	<p>Coding-Decoding</p>

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4	Minor test 4 (Objective)	11-08-2021	<p>Motion : Uniform circular motion - angular displacement, angular velocity, centripetal acceleration</p> <p>Force & Laws of Motion : Types of forces -contact, non-contact, 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, Newton's second law of motion</p>	<p>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, colloids , suspension</p>	<p>Tissue : Compound or Complex Permanent tissue (i) Xylem,(ii) Phloem, Difference between Xylem and Phloem,Protective tissue (i) Epidermis, (ii) Cork or Phellem,Animal tissue, 1.Epithelial tissue (Nature),Types of epithelial tissue on the basis of shapes and functions, 2.Connective tissue(i) Loose connective tissue, (ii) Adipose tissue(iii) Fluid Vascular tissue</p>	<p>Polynomials : Algebraic identities</p> <p>Lines and Angles (Complete)</p>	<p>The Little Girl, Rain on the roof, Connectors, SVA, Int. Gr. Ex. (Omission)</p>	<p>Socialism in Russia- The age of social change, The Russian Revolution, The February revolution in Petrograd, What changed after October..(a) The Civil War, Making a socialist society,(c) Stalinism and Collectivisation, The global influence of The Russian revolution and the USSR</p> <p>Physical features of India- Revision</p>	<p>Alphabet Test ,Alpha-Numeric Sequence Puzzle ,Completion of Incomplete Pattern</p>
5	Minor test 5 (Objective)	25-08-2021	<p>Force & Laws of Motion : Newton's second law of motion with examples/ applications, Newton's third law of motion with examples/ applications, Law of conservation of momentum</p>	<p>Is matter around us pure - Characteristics of solution ,Alloys ,concentration of solution-mass / mass percentage,mass/volume percentage,volume/volume percentage,solubility ,characteristics of suspensions</p>	<p>Tissue : (iv) Fibrous/ Dense regular connective tissue, (v) Skeletal connective tissue3. Muscular tissue, 4.Nervous tissue</p> <p>Improvement in food resources: Introduction, Food Sources, Why do we need to improve crops? Green revolution and its impacts, Improvement of crop yields, Agriculture</p>	<p>Introduction to Euclid's Geometry (Complete)</p> <p>Number System (Complete)</p>	<p>Iswaran the Storyteller, A Truly Beautiful Mind, Connectors, Reported Speech, Int. Gr. Ex (Omission, Reported Speech Gap Filling)</p>	<p>Drainage- Drainage systems in India</p> <p>The Himalayan Rivers - Indus, Ganga and Brahmaputra</p> <p>The Peninsular Rivers - Narmada, Tapi, Godavari, Mahanadi, Krishna, Kaveri</p> <p>Lakes, Role of rivers in the Economy, River Pollution"</p> <p>Socialism in Russia - Revision</p> <p>What is democracy? Why democracy? - Revision</p>	<p>Logical Venn Diagram ,Spotting Out the Embedded Figure</p>
6	Minor test 6 (Objective)	08-09-2021	<p>Force & Laws of Motion : Law of conservation of momentum</p> <p>Gravitation : Newton's Universal law of gravitation, Characteristics of gravitational force, Centripetal force, Why Moon doesn't fall on Earth</p>	<p>Is matter around us pure - Characteristic properties of colloidal solution, Evaporation, centrifugation, separating funnel, sublimation, Chromatography</p>	<p>Improvement in food resources: Crop variety improvement ,Crop production management (1) Nutrient management ,(2) Irrigation, (3)Cropping patterns (i) Mixed cropping (ii) Intercropping</p>	<p>Triangles : Congruence of Triangles, Criteria for Congruence of Triangles - SAS, ASA, AAS, SSS and RHS</p>	<p>The Lake Isle of Innisfree, In the Kingdom of Fools, Articles & Determiners, Prepositions, Int. Gr. Ex (Gap Filling & Editing)</p>	<p>Nazism and the rise of Hitler- The Birth of Weimer Republic, The effects of the war</p> <p>Political Radicalism and Economic Crisis, The years of depression</p> <p>Hitler's Rise to Power, The Destruction of Democracy, Reconstruction</p> <p>The Nazi Worldview, Establishment of the Racial State, The Racial Utopia, Youth in Nazi Germany, The Nazi Cult of Motherhood</p> <p>The Art of Propaganda, Ordinary People and the Crimes against Humanity, Knowledge about the Holocaust,</p> <p>Drainage - Revision</p>	<p>Number , Ranking & Time Sequence Test</p>

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7	Minor test 7 (Objective)	22-09-2021	<p>Gravitation : Kepler's laws of planetary motion , Free fall, Acceleration due to gravity on a planet, Equations of motion of a freely falling body</p>	<p>Is matter around us pure - Distillation,fractional distillation, fractional distillation of air, Crystallisation,treatment of water</p>	<p>Improvement in food resources : (iii) Crop rotation, Crop protection management - Pest, Pesticide, Preventive measures avoiding use of pesticides,Weed, Crop diseases,Control of diseases, Storage of Grains, Animal husbandry, Cattle farming,Poultry, Fish production, Bee keeping</p>	<p>Triangles : Properties of an isosceles triangles, Inequalities in a triangle, Co-ordinate geometry (Complete)</p>	<p>The Snake and the Mirror, A Legend of the Northland, Int. Gr. Ex. (Editing & Omission)</p>	<p>Constitutional Design -Democratic Constitution in South Africa, Struggle against apartheid, Towards a new Constitution, Why do we need a Constitution Making of the Indian Constitution - The path to Constitution, The Constituent Assembly Guiding values of the Indian Constitution, The Dream and the Promise, Philosophy of the Constitution, Institutional Design Nazism and The Rise of Hitler - Revision People as a Resource - Revision</p>	Verbal Analogy
8	Minor test 8 (Objective)	06-10-2021	<p>Gravitation : Equations of motion of a freely falling body, Mass, Weight, Variation of 'g' & weight of an object, Weightlessness, Weight of an object on Moon</p>	<p>Atoms and molecules - Introduction , laws of chemical combination- law of conservation of mass , law of definite proportions</p>	<p>Diversity in living organisms: Introduction, Classification,Importance of Classification, Classification and evolution, Binomial nomenclature , Kingdom systems, Characteristics of five kingdoms,1. Monera, 2.Protista</p>	<p>Heron's Formula (Complete)</p>	<p>The Happy Prince, Int. Gr. (Gap Filling, Editing, Omission)</p>	<p>Forest, Society and Colonialism: Advantages of forests, Why deforestation ? - a. Land to be improved, b. Sleepers on Tracks, c. Plantations, The rise of commercial forestry-a. Dietrich Brandis, b. Scientific Forestry, c. Forest Act, d. How were the lives of people affected ?, e. How did forest rules affect cultivation ?, f. Who could hunt ?,Effects of the new forest laws on Nomadic and Pastoralist Communities-a. New trades, new employments and new services, b. Impact of various forest laws on the colonial people, Rebellion in the forest-a. The people of Bastar, b. The fears of the people, Forest transformation in Java-a. The woodcutters of Java, b. Dutch Scientific Forestry, c. Samin's Challenge, War and Deforestation, New developments in Forestry. Constitutional Design - Revision</p>	Verbal Classification,Non-Verbal Analogy ,Non-Verbal Classification,Arit hematical Reasoning ,Mathematical Operation ,Mirror & Water Images
9	Minor test 9 (Objective)	20-10-2021	<p>Thrust and Pressure : Thrust, Pressure, Pressure in a fluid-Pascal's law, hydraulic lift, Density, Relative density</p>	<p>Atoms and molecules - Dalton's atomic theory - postulates and drawbacks ,Atom , atomic symbols ,</p>	<p>Diversity in Living Organisms - Kingdom -Fungi ,Kindom - Plantae,Thallophyta, Bryophyta, Pteridophyta,</p>	<p>Construction (complete) Quadrilaterals (Complete)</p>	<p>My Childhood, Active & Passive Voice, Int. Gr. Ex. (Process Writing)</p>	<p>Electoral Politics: Why elections?, Why do we need Elections?, What are Elections?, What makes an election democratic ?,Political competition-a. Advantages, b. Disadvantages, System of Elections in India-a. Electoral constituencies, b. Reserved Constituencies, c. Voter's List, d. Nomination of candidates, Educational Qualifications for the Candidates, Election Campaigns, Techniques and methods adopted in Election Campaigns, Are the Elections expensive?, What makes Indian Elections democratic?, Challenges to the free & fair elections Forest, Society and Colonialism - Revision</p>	Blood Relation

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			Physics	Chemistry	Biology	Maths	English	SST	
10	Minor test 10 (Objective)	03-11-2021	<p>Thrust and Pressure : Buoyancy, Its cause, Archimedes' principle & its applications, Apparent weight, Sinking & floating, Floatation of metal ships, Finding relative density of a solid using Archimedes' principle, Melting of ice floating on water</p> <p>Work and Energy : Work</p>	<p>Atoms and molecules - Atomic masses , How do atoms exist ? , molecules of elements and molecules of compounds,What is an ion , valency of some cations and anions, writing chemical formula,molecular mass,formula unit mass</p>	<p>Diversity in Living Organisms - Gymnosperm, Angiosperm, Kingdom animalia, Phylum Porifera, Phylum Cnidaria or Coelenterata, Phylum Platyhelminthes, Phylum Nematoda, Phylum Annelida, Phylum Arthropoda,Phylum Mollusca, Phylum Echinodermata, Chordata, 1.Protochordata,</p>	<p>Linear Equations in two variables (Complete) Probability (Complete) Polynomials (Complete)</p>	<p>No Men Are Foreign, Weathering the Storm in Ersama, Active & Passive Voice, Int Gr. Ex (Dialogue Completion, Process Writing)</p>	<p>Climate: Weather & Climate, Climate of India,Climate Controls, Factors affecting the Climate of India,The Indian Monsoon, The onset of Monsoon & withdrawal, The Seasons, Distribution of rainfall, Monsoon as a unifying bond, Natural Vegetation and Wildlife: Introduction, Relief-a. Land, b. Soil, Climate-a. Temperature, b. Photoperiod, c. Precipitation, Why Forest are important for human being?, Ecosystem, Types of Vegetation Electoral Politics - Revision</p>	Direction Sense Test, Analytical Reasoning
11	Minor test 11 (Objective)	17-11-2021	<p>Work and Energy : Work, Positive & negative work, Work done against gravity, Energy, Kinetic energy, Work-energy theorem</p>	<p>Atoms and molecules- Mole concept</p>	<p>Diversity in living organisms- 2.Vertebrata (i) Pisces,(ii) Amphibians, (iii) Reptilia,(iv) Aves, (v) Mammalia Why do we fall ill?- Introduction,Basic conditions for good health, Disease,</p>	<p>Statistics (complete)</p>	<p>Packing, The Duck and the Kangaroo, Int. Gr. Ex. (News Headlines, Jumbled up Sentences)</p>	<p>Working of Institutions: How is the major policy decision taken?,-a. A Government Order, b. Who are the decision makers, Need for the political Institutions, The Parliament-a. The role of the Parliament, b. Why do we need a Parliament ?, Two Houses of the Parliament,a- Lok Sabha, b. Rajya Sabha, Lok sabha exercises supreme power, Political executives, Who is more powerful?,a. Prime Minister and Council of Ministers, b. Council of Ministers, c. Power of PM, d. Coalition Government, President of India, The judiciary-a. The Supreme Court controls the judicial administration in the country, b. Appointments Climate - Revision</p>	Inserting The Missing Character, Paper Folding & Paper Cutting
12	Minor test 12 (Objective)	01-12-2021	<p>Work and Energy : Potential energy - gravitational & elastic, Law of conservation of energy, Power, Commercial unit of energy, Kinetic energy-momentum relationship</p>	<p>Structure of atom- Introduction , discovery of electrons , properties of cathode rays , determination of charge and mass on electron, discovery of protons, Properties of anode rays</p>	<p>Why do we fall ill ?- Types of diseases - on the basis of duration, Disease and its cause , Types of Diseases ,Infectious diseases,Table - Means of spread of infectious diseases,1.Organ specific and Tissue specific manifestations, 2.Common effect of infectious disease, Principles of Treatment</p>	<p>Surface Areas and Volumes (Complete)</p>	<p>The Last Leaf, Reach for the Top, Int. Gr. Ex (Reported Speech Gap Filling, Error Spotting)</p>	<p>Poverty as a Challenge: Introduction, Two typical cases of poverty-a. Urban Cases, b. Rural cases, ,Assessment of the two cases of poverty,Poverty as seen by social scientists-a. Social Exclusion, b. Vulnerability, Poverty Line, Poverty Estimates, Vulnerable groups, Inter-State disparities,Global poverty scenario, Causes of poverty, Anti-poverty measures,Anti-poverty alleviation program, The challenges ahead Democratic Rights: Introduction, Life without rights,Citizen's rights in Saudi Arabia, Ethnic massacre in Kosovo,Rights in Democracy - What are rights?, Why do we need rights in Democracy?, Rights in Indian Constitution,Fundamental Rights-a. Right to equality, b. Right to freedom, c. Right to life and personal liberty, d. Right against exploitation, e. Right to freedom of religion, f. Cultural and educational rights, How can we secure these rights?, National Human Rights Commission,Expanding scope of rights, International covenant on economic, social & cultural rights Working of Institutions - Revision</p>	Sitting Arrangement ,Dot Situation

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			Physics	Chemistry	Biology	Maths	English	SST	
13	Minor test 13 (Objective)	15-12-2021	<p>Sound : Wave motion, Mechanical & non-mechanical waves, Amplitude & equilibrium position, Transverse & longitudinal waves, Wavelength, time period, frequency, wave speed, Propagation of sound</p>	<p>Structure of Atom - Thomson model of an atom, Rutherford model of an atom, Bohr's model of an atom, Discovery of neutrons, Atomic number and mass number, Distribution of electrons in different orbits</p>	<p>Why we do fall ill? Prevention of infectious diseases, Natural Resources - Introduction, Natural resources, The breath of life : air, Importance of Atmosphere, Rain, Air pollution, Water-a wonder liquid, Water pollution, Soil, Soil pollution, soil erosion</p>	<p>Area of Parallelograms and triangles (Complete) Quadrilaterals (Complete)</p>	<p>On Killing a Tree, A House is not a Home, Int. Gr. Ex (Gap Filling, Omission, Jumbled up Sentences)</p>	<p>Population: Population, Importance of studying population, Population size & distribution-a. population growth, b. Birth Rate, c. Death rate, d. Migration, e. Age Composition, f. Sex Ratio, g. Literacy rates, h. Occupational Structure, i. Health, National Population Policy Poverty as a Challenge - Revision Democratic Rights - Revision</p>	<p>Dice & Cubes, Logical Sequence of words</p>
14	Minor test 14 (Objective)	29-12-2021	<p>Sound : Factors affecting speed of sound, Graphs of transverse & longitudinal waves, Audible & inaudible sounds, Infrasonic & ultrasonic sounds, Characteristics of audible sounds-pitch, loudness, quality, Tone & note, Subsonic & supersonic speed, Sonic boom, Sound (Laws of reflection, Echo, Reverberation, Applications of reflection of sound, Applications of ultrasound, SONAR), Working of human ear</p>	<p>Structure of Atom - Valency of elements, isotopes, applications of isotopes, calculation of atomic mass of an element from the mass number of its isotopes</p>	<p>Natural Resources- Introduction, Natural resources, The breath of life : air, Importance of Atmosphere, Rain, Air pollution, Water-a wonder liquid, Water pollution, Soil, Soil pollution, soil erosion, Biogeochemical cycles- Water cycle, Nitrogen Cycle, Carbon cycle, Green house effect, Oxygen cycle, Ozone layer</p>	<p>Circles (Complete)</p>	<p>Kathmandu, A Slumber did My spirit Seal, Int. Gr. Ex (Process Writing, News Headlines), The Accidental Tourist, The Bond of Love, Int. Gr. Ex. (Gap Filling, Dialogue Completion)</p>	<p>Food Security : Food Security, Why food security?, How is food security affected during a calamity?, Who are food insecure?-a. Social composition, b. Prone areas of food insecure, Hunger-a. Chronic hunger, b. Seasonal hunger, Self sufficiency of food grain, Food security in India- a. Buffer Stock, b. Minimum support price, Three important food intervention programmes-a. National Food For Work Programme, b. Current status of PDS, c. AAY, d. Advantages of PDS, e. Disadvantages of PDS, Role of cooperatives in food security, Green Revolution & production of more food grains, Problem of the working of the ration shops Population - Revision</p>	<p>Figure Matrix, Figure Formation, Construction of Square, Grouping of Identical Figures</p>
15	Minor test 15 (Objective)	05-01-2022	Full syllabus	Full syllabus	Full syllabus	Full Syllabus	Full Syllabus	Full syllabus	Full Syllabus



**SCHEDULE & SYLLABUS OF ONLINE TEST SERIES
PRE-NURTURE & CAREER FOUNDATION (PNCF)
[Academic Session : 2021 - 22]**

Major Test No.	Test Type	Test Date	Subject	Syllabus (CLASS - 9)
Major Test - 1	SUBJECTIVE	10-01-2022 (Monday)	MATHS	Full Syllabus
Major Test - 2	SUBJECTIVE	17-01-2022 (Monday)	SCIENCE	Full Syllabus
Major Test - 3	SUBJECTIVE	24-01-2022 (Monday)	ENGLISH	Full Syllabus
Major Test - 4	SUBJECTIVE	31-01-2022 (Monday)	SST	Full Syllabus
Major Test - 5	SUBJECTIVE	07-02-2022 (Monday)	MATHS	Full Syllabus
Major Test - 6	SUBJECTIVE	14-02-2022 (Monday)	SCIENCE	Full Syllabus
Major Test - 7	SUBJECTIVE	21-02-2022 (Monday)	ENGLISH	Full Syllabus
Major Test - 8	SUBJECTIVE	28-02-2022 (Monday)	SST	Full Syllabus