

Minor Test No.	Test Type	Test Date	TARGET : CLASS 8						Mental Ability
			Physics	Chemistry	Biology	Maths	English	SST	
1	Minor test 1 (OMR based)	09/06/2019	Force and Pressure : force, forces are due to interaction, exploring forces, forces can change state of motion (it can move a stationary object, it can stop a moving object, it can increase or decrease the speed of a moving object, it can change the direction of a moving object, it can make an object to rotate), force can change the shape of an object, contact forces(muscular force, friction, tension, normal force) , non-contact forces(magnetic force, electrostatic force, gravitational force)	Synthetic fibres and plastics - definition of fibre , types of fibres on the basis of sources -natural and synthetic , sources of natural fibres and synthetic fibres ,polymerisation - condensation and addition, cellulose as polymer, properties and uses of rayon,Nylon,Strength of different fibres, Polyester ,Acrylic, Advantages and disadvantages of synthetic fibres,Plastic- Definition, Types of plastics- Thermoplastics, Thermosetting plastics, Plastics with linear arrangement , Plastics with cross linked arrangement	Crop production and management: Crops and Types of Crops,Agricultural Practices,1.Soil preparation (i)Ploughing,(ii) Levelling,(iii) Manuring,Fertilisers, Methods for maintaining soil fertility without use of Fertilisers,Difference Between Manures and Fertilisers, 2.Sowing,3.Irrigation,Methods of irrigation, Sprinkler and Drip irrigation system,Advantages of irrigation,other irrigation systems,	Rational Numbers : Rational numbers, Operational on rational numbers, Properties of rational numbers , Special Numbers between 0 & 1, Additive inverse of a Rational Number, Multiplicative inverse of a Rational Number , Distributive property of multiplication over addition of rational numbers, Rational numbers on the number line, Rational numbers between two rational numbers	Nouns, Pronouns, Non-Finite Forms of Verbs	How, When & Where- How Important are Dates?, Which Dates? Periodisation in history, Modern period--How can we study the modern period? - Primary sources & secondary sources, Trade to Territory -East India Company comes East, Acquisition of territories in India, Mysore, 2.4- Anglo-Maratha wars(1775-1818), 2.5- The Anglo-Sikh wars, The Anglo-Nepalese Wars, Dalhousie's expansionist policies, Setting up a new administration, The Company Army, Resources- Introduction of Resources, Types of resource, Natural Resources, Human Resources and Human Made resources, Conservation of resources Our Constitution- Why should a country have a constitution?, Framing of Indian constitution, Visions & values of the Indian constitution, The Indian constitution: Key features- Federalism & Parliamentary form of Government Separation of power , Fundamental Rights	Verbal Series ,Non Verbal Series
2	Minor test 2 (OMR based)	30/06/2019	Force and Pressure : Pressure(formula and unit), pressure exerted by liquids and gases, pressure and depth Atmospheric pressure Friction : Frictional force, its direction, spring balance	Synthetic fibres and plastics - General properties and uses of plastics Plastics and the environment-Problems and solutions associated with plastic disposal Metals & Non- metals - Occurrence of Metals & Non-metals, Physical properties of metals & Non - metals - 1. Physical state, 2. Hardness 3. Malleability 4. Ductility 5. Conductivity (with exceptions),	Crop production and Management:4.Weeding, Methods of weed control,Pesticides,Types of Pesticides,Advantages and Disadvantages of Pesticides,Preventive measures avoiding use of pesticides,5.Harvesting,6.Threshing, 7.Winning	Squares and Square Roots : Square number / Perfect square, Properties of square numbers, One's digit in square of number , Some more Interesting patterns, Some more Interesting patterns, Short cut method for Squaring a Number : Column method, Short cut method for Squaring a Number : Observation method, Short cut method for Squaring a Number : Diagonal method, Finding the Square of a number, Square roots	Tenses and Conditionals	Ruling the countryside- The company becomes the Diwan, Revenue system under the British- Permanent Settlement Ryotwari System, Mahalwari system & Effect of these systems, Cultivation of commercial crops, Why the demand for Indian indigo?- Britain turns to India contd.- How was indigo cultivated?, The problem with Nij cultivation, Indigo on the land of ryots, The indigo rebellion (1859-60) Understanding secularism- What is secularism, Why is it important to separate Religion from the State, What is Indian Secularism, In what way is Indian secularism different from that of other democratic countries? Importance of secularism for India's unity	Coding- Decoding
3	Minor test 3 (OMR based)	14/07/2019	Friction : The cause of friction, types of friction, Factors on which friction depends, static friction, sliding friction, friction: a necessary evil, necessity of friction in different cases, rolling friction	Metals & Non- metals -Reaction of metals with Oxygen,Metals & Non- metals Reaction of metals with water,Nature of Oxides	Crop production and management- 8. Storage,1.4 Animal husbandry,Cattle farming, Poultry ,Fisheries,Apiculture,Animal Diseases Microorganisms-Friends and Foe:Introduction,Occurrence of microorganisms,Major groups of Microbes-1.Bacteria,2.Fungi	Squares and Square Roots : Square roots(Long division method), Square root of decimal, Estimating Square root Cubes and Cube roots : Cubes, Some important points, Some patterns of related to the cube, Cubes and their prime factors, Cube roots, Cube root of perfect cube by prime factorization, Steps for finding cube roots, Cube root of cube through estimation	Reported Speech, Synonyms & Antonyms	Parliamentary Government- Introduction, Parliamentary form of Government, Presidential form of government, Why India chose a Parliamentary Democracy?, Organs of the Indian government, b) Rajya Sabha , Law making process in the Parliament, Powers & Functions of Parliament Land, Soil, Water, Natural Vegetation and Wildlife- Land use, Conservation of land resource, Soil resources- Soil formation Types of soil, Soil resources in India, Degradation of soil & conservation measures Water- Problem of water availability, India's water resources, Conservation of water resources, Natural Vegetation & Wildlife- Distribution of natural vegetation, Conservation of natural vegetation & wildlife Trade to Territory (Revision)	Direction Sense Test

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4	Minor test 4 (OMR based)	28/07/2019	Friction: Friction and energy, fluid friction, reducing friction (ball bearings, air cushion, streamlining), increasing friction. Sound : introduction of sound, sound is produced by vibrating body, jal tarang, amplitude of vibrating particle	Metals & Non- metals -Reaction of metals with acids and bases, displacement reaction,Uses of metals & non- metals	Microorganisms(Friends and Foe):3.Protozoa,4.Algae,5.Virus Micro-organisms- As Friends,1.Preparation of Curd,Bread,Cake 2.Commercial uses of micro-organisms,3.Agricultural use of microorganisms,Nitrogen cycle	Linear equation in one variable : Linear equation in one variable, Solution of linear equation, Solving equations with variables on one side, Solving equations with variables on both sides, Reducing equations to simpler form, Fractions in algebraic expressions, 5.8 Fractional coefficient in algebraic expressions, Equations reducible to linear form,	Active and Passive Voice	Tribals, Dikus & the Vision of the Golden Age- Introduction, Tribal Occupations, How did Colonial Rule Affect Tribal Lives? , Tribal Revolts , Tribal uprisings in the North-east, Understanding Laws-Are all people equal in the 'eyes of the law'? How do new laws come about?, Unpopular and controversial laws Parliamentary Government	Alphabet Test ,Alpha-Numeric Sequence Puzzle ,Dot Situation
5	Minor test 5 (OMR based)	11/08/2019	Sound : wave motion , Sound needs medium for propagation, factors on which speed of sound depends, frequency of vibrating body, echolocation, sound produced by humans, The human ear, time period of a vibrating particle, audible and inaudible sounds	Coal and petroleum - Natural resources (exhaustible and inexhaustible) , Fuels - Calorific value , characteristics of an ideal fuel , Coal - varieties	Microorganisms(Friends and Foe):4.Medicinal Uses of Micro-organisms,(Antibiotics and vaccines), 5.Cleaning of the environment , Micro-organisms-As foe,Diseases causing microbes in Humans, Diseases causing microbes in Plants,in Animals,Microbes causing food spoilage, Food Preservation Conservation of Plants and Animals: Introduction,Deforestation and Its Causes	Introduction to Graphs and Data Handling : Representation of data (Pictograph, Bar Graph, Double Graph), Representation of data (Histogram, Bar Graph versus Histogram), Representation of data (Pie Charts / Pie Diagrams / Circle Graph , Reading & Interpreting pie - charts), Representation of data (Line graph & linear graph), Organizing & grouping of data, Chances and Probability	Prepositions	When People Rebel-Introduction, Causes of the Revolt, A mutiny becomes a popular rebellion, The rebellion spread, Suppression of the Revolt, Results of the Revolt What happened to cities under colonial rule?, The Making of New Delhi, Inside the Old City, Judiciary- Introduction, The Supreme Court- Qualification, Oath and Term, Removal, contd.- Emoluments, Jurisdiction, The High Court, Subordinate Court, Independence of Judiciary , Lok Adalats & Public Interest Litigation. Ruling the Countryside, Resources	Inserting The Missing Character
6	Minor test 6 (OMR based)	25/08/2019	Sound: , Characteristics of audible sounds (pitch , loudness, quality) , noise and music, noise pollution , sources of noise pollution , effects of noise pollution, measures to limit noise pollution, hearing impairment, hearing aid.	Coal and petroleum - destructive distillation of coal, Petroleum - origin and occurrence , Refining and uses of petroleum and its fractions	Conservation of Plants and Animals: Consequences of Deforestation - Increase in Temperature,Floods,Drought Reducing water table,Soil erosion, Conservation of Forest and Wildlife, Wildlife,Protected Areas ,(1)Biosphere Reserve,Flora and Fauna	Understanding quadrilaterals : Curve, polygons, Sum of the measure of exterior angles of polygon, Kinds of quadrilaterals, Some Special Parallelograms	Subject - Verb Agreement	Colonialism and the City- What happened to cities under colonial rule?, 12.2- The Making of New Delhi, The Making of New Delhi-(a) Planning a New Capital,(b) Life in the tiem of partition,12.3 Inside the Old city Understanding Our Criminal Justice System-What is the role of police in investigating a crime? The FIR (First Information Report), Role of the Courts	Number , Ranking & Time Sequence Test

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7	Minor test 7 (OMR based)	08/09/2019	Chemical Effects of Electric Current (Introduction, Conductivity in solids, LED, Conductivity in liquids, Oersted Experiment, Acids, Bases, Salts, Neutralisation Reaction, Electrolysis of Copper Sulphate, Electrolysis of Water, Why potato conducts electricity, Potato polarity indicator experiment	Coal and petroleum - Natural resources (exhaustible and inexhaustible) , Fuels - Calorific value , characteristics of an ideal fuel , Coal - varieties,destructive distillation of coal, Petroleum - origin and occurrence , Refining and uses of petroleum and its fractions Natural gas - composition , occurrence and uses , Conservation of fossil fuels	Conservation of Plants and Animals Endemic species and Destruction of Endemic Species ,(2)Wildlife Sanctuary,(3)National park, Project Tiger, Red Data Book, Migration, Recycling Of Paper, Reforestation	Exponents and powers : Powers with negative exponents, Laws of exponents, Expanded form of a decimal numbers, Scientific notation, Comparing very large and very small numbers	Phrasal Verbs, Error Spotting	Mineral and Energy Resources- What is minerals?, Types of minerals, How are minerals extracted from the earth? Distribution of minerals Distribution in India , Uses of minerals, Power resources - Conventional sources, contd.- Non-conventional sources of energy, Conservation of minerals and energy resources Tribals ,Dikus and the vision of golden age Our Constitution Resources	Verbal Analogy
8	Minor test 8 (OMR based)	22/09/2019	Some Natural Phenomena : Lightning Introduction, Frictional electricity,Modern theory of electric charges, Interaction between charges, Charging by Induction	Combustion and flame - Combustion , combustible and non-combustible materialsConditions required for combustion , ignition temperature	Cell - Introduction Discovery of cell, Variety in cell number, Cell size, Cell shape,Levels of organisation Structure of Cell (1) Cell membrane (2) Cytoplasm	Playing with Numbers : Numbers in general form, Puzzles and games, Letters for digits, Test of divisibility	Conjunctions	Weavers , Iron smelters and factory owners: Introduction,Indian textiles and the world market, Words tell us histories, Indian textiles in European markets, Who were the weavers ?,The decline of Indian textiles, British control of the nature, Cotton mills come up, The sword of Tipu Sultan and Wootz steel, Rise of iron and steel factories in India, Education and British rule: Civilising the native, Educating the Nation,How the British saw education, Change in British policy, Orientalist and Anglicist debate, Education for Co The agenda for a national education,	Verbal Classification, Non -Verbal Analogy ,Non-Verbal Classification, Mathematical Operation,Paper Folding & Paper Cutting, Logical Sequence Of Words
9	Minor test 9 (OMR based)	06/10/2019	Some Natural Phenomena : Transfer of charge, Leaf electroscope, Lightning Introduction, Why clouds get charged, Why air becomes a conductor during lightning, Lightning safety rules, Lightning conductor, Earthquake, Structure of Earth, How earthquake occurs - Stress, Strain, Faults & its types, Earthquake waves, Seismograph, Richter scale, Protection against earthquake	Combustion and flame - How do we control fire ? , Soda acid fire extinguisher , Types of combustion ,Flame - Structure of flame	Cell- Cell Organelles and their function-Mitochondria,Chloroplast, Endoplasmic reticulum,Golgi Bodies,Lysosomes,Ribosomes and Vacuoles, Nucleus,Difference between Prokaryotes and Eukaryotes, Difference between Plant cell and Animal cell,	Direct and Inverse Proportions (Complete)	The Sentence, Best Word Vocabulary	Agriculture: Introduction, Agriculture and world perspective- a. Impact of economic development, b. Man and food supply, c. Limitations in increasing food supply, Agricultural development in India- Main features of agriculture in India, Problems in Indian agriculture,Agricultural reforms, Types of farming- a. Subsistence farming, Shifting cultivation, Major crops- a. Rice, b.Wheat,c. Millets,d. Maize, e. Cotton,f. Jute , g. Coffee, h. Tea,Agricultural development-a. A farm in India, b. A farm in USA Understanding Marginalisation: a. Scheduled Caste, b. Scheduled Tribes, Who are Adivasis ?-Adivasis, a. Adivasis and stereotyping, b. Adivasis and Development,	Analytical Reasoning, Mirror & Water Images

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10	Minor test 10 (OMR based)	20/10/2019	Light : (Sources of light, Objects- Luminous, Non luminous, Transparent, Translucent, Opaque, Absorption, Transmission, Reflection, Properties of light, Reflection of light, Basic terms related to reflection of light, Laws of reflection, Reflection from Plane mirrors - image formation, Lateral inversion, Types of reflection, Periscope, Multiple images - Kaleidoscope,)	Combustion and flame -What is fuel ? , Ideal fuel - characteristics , classification of fuels , fuel efficiency,Harmful effects of burning fuels	Reproduction in Animals- Introduction, Modes of Reproduction, Reproduction in animals - (A) Male Reproductive Organs (B) Female Reproductive Organs,Fertilisation, Types of Fertilisation-(A) Internal Fertilisation, (B) External Fertilisation	Comparing Quantities (Percentage, Profit and Loss, Discount, Value added tax/ Sales Tax)	Adverbs	Women, Caste and Reforms: Introduction,Working towards change, Changing the lives of widows, Changing the lives of widows(remaining part),Women write about women,Caste and social reform, Demands for equality and justice, Gulamgiri,Who could enter temples ? Confronting marginalisation: Invoking fundamental rights,Laws for marginalised, Promoting social justice, How does the reservation policy work ? , Protecting rights of dalits and Adivasis,Adivasi Demands and the 1989 Act,Conclusion Agriculture	Blood Relation
11	Minor test 11 (OMR based)	03/11/2019	Light : (Dispersion of white light,Working of human eye, Principle of cinematography, Accomodation, Near point, Least distance of distinct vision, Far point, Care of eyes, Eyes of animals, Visually challenged people & resources for them, Braille System, Cataract), Universe : (Sky - celestial objects, Moon-tidal locking, Orbital path of moon,)	Pollution of air and water - pollution - types of pollutants , types of pollution - air pollution and causes of air pollution, Acid rain and its effect , effect on Taj mahal ,Ozone depletion(introduction)	Reproduction in animals - Development of Embryo Internal Fertilisation in hens,Viviparous and Oviparous ,Young ones to adult, Asexual Reproduction Types of Asexual Reproduction (A) Budding,(B) Binary Fission (C) Other methods of Asexual Reproduction,Cloning	Comparing Quantities (Simple Interest and Compound Interest) Algebraic Expressions, Identities and Factorization (Algebraic Expressions, Like and unlike terms, Polynomial, Addition and Subtraction of Algebraic Expressions, Multiplication of Algebraic Expressions, Division of Algebraic Expressions, Division Algorithm, Greatest common factors of Monomials)	Phrases & Clauses, Idioms & Phrases	Changing world of visual arts: Introduction, New forms of imperial art-a. Looking for picturesque, b. Portraits of authority, c. Painting history, What happened to Court artists ? , The new popular Indian art, The search for a national art, A different vision of national art, Conclusion Public Facilities: Public facilities and its importance- Water as apart of fundamental right to life, Government's role, Source of incomefor public facilities, Water supply in Chennai, What affects the sale of water by farmers to dealers, In search of alternatives, Steps to conserve water,Extending sanitayion facilities,Conclusion Women , Caste and Reforms vi	Logical Venn Diagram, Completion of Incomplete Pattern
12	Minor test 12 (OMR based)	17/11/2019	Universe : (Phases of moon, Moon's surface, Stars, Ursa Major, Orion constellation, Constellations - Cassiopia, Ursa minor, Solar system, Planets (Mercury)	Pollution of air and water -Ozone depletion- from effects of ozone depletion, Green house effect , prevention of air pollution , water pollution - effect of water pollution ,	Reaching the age of adolescence - Introduction Puberty,Changes At Puberty, Endocrine Gland-Pituitary gland,Thyroid gland,pancreas,Adrenal gland,Testes , Ovaries	Algebraic Expressions, Identities and Factorization(Factorization of Polynomial, Factorization by regrouping terms, Factorization of trinomials, Some Special Identities),	Articles & Determiners	The making of National Movement: Introduction, Early political Organisations,Indian National Congress, Phases of National Movement- a.Moderate phase, b. Extremist Phase, Partition of Bengal, Swadeshi and Boycott Movement, Rise of Muslim League, Surat Session, Seditious Committee Act, Morley Minto Reforms, Delhi Durbar, Growth of revolutionary Terrorism, International events- Organisation of Ghadar Party, Lucknow Pact, Home Rule Movement, Government of India Act 1919, c. Gandhian Phase, Aim of the movement, Mill workers, Rowlatt Act and Satyagraha, Jallianwala Bagh Massacre, Khilafat Movement, Non Cooperation Movement, Event of Chauri and Chura, The Swaraj Party, Simon Commission, Nehru Report, Bardoli Satyagraha,Lahore Session and Poorna Swaraj, The Civil Disobedience Movement, Round Table Conferences, Demand for Pakistan, Quit India Movement, INA, Wavell Plan, Shimla Conference, Cabinet Mission, Mountbatten Plan,Indian Independence Act, Partition of India, Manufacturing Industries: Introduction, Classification of industries- i. On the basis of raw material, ii. On the basis of size, iii. On the basis of ownership, Factors affecting location of industries, Industrial System, Industrial regions, Distribution of major industries Public Facilities	Sitting Arrangement

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13	Minor test 13 (OMR based)	01/12/2019	Universe : Planets, Asteroids,	Pollution of air and water- Pollution of ganga and conservation of water,-Potable water , purification of drinking water,	Reaching the age of adolescence Role of hormones in initiating reproductive function,Reproductive phase of life in Humans,Reproductive Health, AIDS,sex determination	Visualising Solid Shapes (Complete), Mensuration (Plane figures; Square, Trapezium, Parallelogram, Rhombus, Area of a polygon, Circles, Radius of inscribed circle of a polygon, Radius of circumscribed circle of a polygon, Cuboid, Cube)	Modals	Human Resources : Introduction, Population-a. Population size and distribution, b. Density of population, c. Densely populated areas, d. Medium density, e. Thinly populated, Factors affecting distribution of population, Population growth and the process of population change India After Independence : A new and Divided Nation, A Constitution is written, Provision of three lists, Problems of National Language, How were the states to be formed?, Planning for development, A Nation-Sixty years On Making of National Movement	Dice & Cubes, Spotting Out The Embedded Figure
14	Minor test 14 (OMR based)	15/12/2019	Universe : Comets, Meteors, Artificial satellites, Chemical Effects of Electric Current	Pollution of air and water-Control measures of water pollution and tragedies of pollution	Reaching the age of adolescence (Complete)- Introduction Puberty,Changes At Puberty, Endocrine Gland-Pituitary gland,Thyroid gland,pancreas,Adrenal gland,Testes , Ovaries Role of hormones in initiating reproductive function,Reproductive phase of life in Humans,Reproductive Health, AIDS,sex determination	Mensuration (Right circular cylinder, Hollowcylinder, Cone, Sphere, Hemisphere)	Int. Gr. Ex Gap Filling, Reported Speech, Active & Passive Voice	Law and Social Justice: Exploitation of Common Man,Laws that prevent exploitation-a. The Factories Act,Consumer's Protection, c. Pricing of goods , d. Enviornmental protection, e. Child Labour,Laws that prevent Exploitation- Trade Unions Act, Implementation of Law, Bhopal Gas Tragedy, Enforcement of safety laws, Laws to protect Environment, New laws imposed by the government,Environment as a public facility, Conclusion. India after Independence, Human Resources	Figure Matrix, Figure Formation, Construction of Square & Grouping of Identical Figures
15	Minor test 15 (OMR based)	29/12/2019	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 : 2019 - 20]**

Major Test No.	Test Type	Test Date	Subject	Syllabus (CLASS - 8)
1	Major Test No.1 (Subjective)	05/01/2020	MATHS	30% From Syllabus of Minor Test 1, 2, 3, 4 And 70% From Syllabus of Minor Test 9 TO 14
2	Major Test No.2 (Subjective)	12/01/2020	SCIENCE	30% From Syllabus of Minor Test 1, 2, 3, 4 And 70% From Syllabus of Minor Test 9 TO 14
3	Major Test No.3 (Subjective)	19/01/2020	ENGLISH	30% From Syllabus of Minor Test 1, 2, 3, 4 And 70% From Syllabus of Minor Test 9 TO 14
4	Major Test No.4 (Subjective)	26/01/2020	SST	30% From Syllabus of Minor Test 1, 2, 3, 4 And 70% From Syllabus of Minor Test 9 TO 14
5	Major Test No.5 (Subjective)	02/02/2020	MATHS	30% From Syllabus of Minor Test 5, 6, 7, 8 And 70% From Syllabus of Minor Test 9 TO 14
6	Major Test No.6 (Subjective)	09/02/2020	SCIENCE	30% From Syllabus of Minor Test 5, 6, 7, 8 And 70% From Syllabus of Minor Test 9 TO 14
7	Major Test No.7 (Subjective)	16/02/2020	ENGLISH	30% From Syllabus of Minor Test 5, 6, 7, 8 And 70% From Syllabus of Minor Test 9 TO 14
8	Major Test No.8 (Subjective)	23/02/2020	SST	30% From Syllabus of Minor Test 5, 6, 7, 8 And 70% From Syllabus of Minor Test 9 TO 14