Usha Martin School, Malda
Session:-2024-25
Class:- XI (B) (GATI)

Subject	Periodic Test-I	Half Yearly Examination	Periodic Test-II	Annual Examination
English	***HORNBILL*** Prose 1. The Portrait of a Lady 2. We're Not Afraid to Die if We Can All Be Together Poem 1. A Photograph 2. The Laburnum Top ***SNAPSHOTS*** Prose 1. The Summer of the Beautiful White Horse 2. The Address ***GRAMMAR*** 1. Tenses ***WRITING SKILL*** 1. Note making	***HORNBILL*** Prose 1. Discovering Tut: the Saga Continues 2. The Portrait of a Lady 3. We're Not Afraid to Die if We Can All Be Together Poem 1. A Photograph 2. The Laburnum Top 3. The Voice of the Rain 4. Childhood ***SNAPSHOTS*** Prose 1. The Summer of the Beautiful White Horse 2. The Address 3. Birth ***GRAMMAR*** 1. Clauses ***WRITING SKILL*** 1. Poster Making 2. Debate 3. Speech	***HORNBILL*** Prose 1. The Adventure 2. Discovering Tut: the Saga Continues 3. The Portrait of a Lady Poem 1. Father to Son 2. The Voice of the Rain 3. Childhood ***SNAPSHOTS*** Prose 1. Mother's Day ***GRAMMAR*** 1. Tenses 2. Clauses ***WRITING SKILL*** 1. Classified Advertisement 2. Poster making	***HORNBILL*** Prose 1. Silk Road 2. Discovering Tut: the Saga Continues 3. The Portrait of a Lady 4. We're Not Afraid to Die if We Can All Be Together 5. The Adventure Poem 1. A Photograph 2. The Laburnum Top 3. The Voice of the Rain 4. Childhood 5. Father to son ***SNAPSHOTS*** Prose 1. The Tale of Melon City 2. The Summer of the Beautiful White Horse 3. The Address 4. Birth 5. Mother's Day ***GRAMMAR***

				1. Transformation of Sentences 2. Clauses ***WRITING SKILL*** 1. Poster Making 2. Debate 3. Classified Advertisement 4. Speech
Physics	***BOOK: NCERT PHYSICS NCERT EXEMPLAR*** • Chapter 2: Units and Measurements. • Chapter 3: Motion in a Straight Line. • Chapter 4: Motion in a Plane • Chapter 5: Laws of Motion.	***BOOK: NCERT PHYSICS NCERT EXEMPLAR*** • Chapter 2: Units and Measurements. • Chapter 3: Motion in a Straight Line. • Chapter 4: Motion in a Plane • Chapter 5: Laws of Motion. • Chapter 6: Work, Energy, and Power. • Chapter 7: System of Particles and Rotational Motion. • Chapter 8: Gravitation ***PRACTICAL SYLLABUS*** 1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume. 2. To measure diameter of a given wire and thickness	***BOOK: NCERT PHYSICS NCERT EXEMPLAR*** • Chapter 7: System of Particles and Rotational Motion. • Chapter 8: Gravitation • Chapter 9: Mechanical properties of solids. • Chapter 10: Mechanical properties of fluids. • Chapter 11: Thermal properties of matter	***BOOK: NCERT PHYSICS NCERT EXEMPLAR*** Chapter 2: Units and Measurements. • Chapter 3: Motion in a Straight Line. • Chapter 4: Motion in a Plane • Chapter 5: Laws of Motion. • Chapter 6: Work, Energy, and Power. • Chapter 7: System of Particles and Rotational Motion. • Chapter 8: Gravitation • Chapter 9: Mechanical properties of solids. • Chapter 10: Mechanical properties of fluids. • Chapter 11: Thermal properties of matter • Chapter 12: Thermodynamics

		of a given sheet using screw gauge. 3. To determine volume of an irregular lamina using screw gauge. 4. To determine radius of curvature of a given spherical surface by a spherometer. 5. To determine the mass of two different objects using a beam balance. 6. To find the weight of a given body using parallelogram law of vectors. 7. Using a simple pendulum, plot its L-T2 graph and use it to find the effective length of second's pendulum. 8. To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result.		• Chapter 13: kinetic theory of gases • Chapter 14: oscillations • Chapter 15: Waves ***PRACTICAL SYLLABUS*** 1. All the practicals from half yearly syllabus 2. To study the relationship between force of limiting friction and normal reaction and to find the co- efficient of friction between a block and a horizontal surface. 3. To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination θ by plotting graph between force and Sinθ. 4. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.

				5. To study the relationship between the temperature of a hot body and time by plotting a cooling curve. 6. To study the relation between frequency and length of a given wire under constant tension using sonometer
Chemistry	***BOOK :*** ***1. NCERT CHEMISTRY PART (PART I + PART II)*** ***2. MODERN'S ABC+ CHEMISTRY (PART I + PART 2)*** Unit 1 Some basic concepts of Chemistry Unit 2 Structure of Atom Unit 3 Classification of Elements and Periodicity in properties ***PRACTICAL COMPREHENSIVE PRACTICAL CHEMISTRY*** 1.Preparation of standard solution of Oxalic acid. 2.Determination of strength of a given solution of Sodium hydroxide by titrating it	***BOOK :*** ***1. NCERT CHEMISTRY PART (PART I + PART II)*** ***2. MODERN'S ABC+ CHEMISTRY (PART I + PART 2)*** Unit 1 Some basic concepts of Chemistry Unit 2 Structure of Atom Unit 3 Classification of Elements and Periodicity in properties Unit 4 Chemical Bonding and Molecular structures Unit 5 Thermodynamics Unit 7 Redox Reactions ***PRACTICAL COMPREHENSIVE PRACTICAL CHEMISTRY*** 1.Preparation of standard solution of Oxalic acid. 2.Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalic acid. 3.Preparation of standard solution of Sodium carbonate.	***BOOK :*** ***1. NCERT CHEMISTRY PART (PART I + PART II)*** ***2. MODERN'S ABC+ CHEMISTRY (PART I + PART 2)*** Unit 6 Equilibrium Unit 8 Organic Chemistry – Some basic principles and techniques ***PRACTICAL COMPREHENSIVE PRACTICAL CHEMISTRY*** 1.Crystallization of impure sample of any one of the following: Alum, Copper Sulphate, Benzoic Acid. 2.Detection of -Nitrogen, Sulphur, Chlorine in organic compounds.	***BOOK :*** ***1. NCERT CHEMISTRY PART (PART I + PART II)*** ***2. MODERN'S ABC+ CHEMISTRY (PART I + PART 2)*** Unit 1 Some basic concepts of Chemistry Unit 2 Structure of Atom Unit 3 Classification of Elements and Periodicity in properties Unit 4 Chemical Bonding and Molecular structures Unit 5 Thermodynamics Unit 8 Organic Chemistry – Some basic principles and techniques Unit 6 Equilibrium Unit 7 Redox Reactions Unit 9 Hydrocarbon ***PRACTICAL COMPREHENSIVE PRACTICAL CHEMISTRY*** 1.Preparation of standard solution of Oxalic acid.

	against standard solution of Oxalic acid. 3.Preparation of standard solution of Sodium carbonate. 4.Determination of strength of a given solution of hydrochloric acid by titrating it against standard Sodium Carbonate solution	4.Determination of strength of a given solution of hydrochloric acid by titrating it against standard Sodium Carbonate solution 5. Determination of one anion and one cation in a given salt. Determination of pH of some solutions obtained from fruit juices, solution of known and varied concentrations of acids, bases and salts using pH paper or universal indicator **Investigatory project will be given.**		2.Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalic acid. 3.Preparation of standard solution of Sodium carbonate. 4.Determination of strength of a given solution of hydrochloric acid bytitrating it against standard Sodium Carbonate solution 5. Determination of one anion and one cation in a given salt. Determination of pH of some solutions obtained from fruit juices, solution of known and varied concentrations of acids, bases and salts using pH paper or universal indicator 6.Crystallization of impure sample of any one of the following: Alum, Copper Sulphate, Benzoic Acid. 7.Detection of -Nitrogen, Sulphur, Chlorine in organic compounds **Investigatory project**
Biology	***(NCERT BOOK AND EXEMPLAR)*** ***+*** ***MODERN ABC*** Unit-I Diversity of Living Organisms	***(NCERT BOOK AND EXEMPLAR)*** ***+*** ***MODERN ABC*** Unit-I Diversity of Living Organisms	***(NCERT BOOK AND EXEMPLAR)*** ***+*** ***MODERN ABC*** Unit-III Cell: Structure and Function	***(NCERT BOOK AND EXEMPLAR)*** ***+*** ***MODERN ABC*** Unit-I Diversity of Living Organisms Chapter-1: The Living World

	Chapter-1: The Living World Chapter-2: Biological Classification Chapter-3: Plant Kingdom Chapter-4: Animal Kingdom Unit-V Human Physiology Chapter-14 : Breathing and Exchange of Gases	Chapter-1: The Living World Chapter-2: Biological Classification Chapter-3: Plant Kingdom Chapter-4: Animal Kingdom Unit-V Human Physiology Chapter-14: Breathing and Exchange of Gases Unit-II Structural Organization in Plants and Animals Chapter-5: Morphology of Flowering Plants Chapter-6: Anatomy of Flowering Plants Chapter-7: Structural Organisation in Animals Unit-V Human Physiology Chapter-15: Body Fluids and Circulation ***PRACTICAL EXPERIMENTS*** 1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted	Chapter-8: Cell-The Unit of Life Chapter-9: Biomolecules Chapter-10: Cell Cycle and Cell Division Unit-IV Plant Physiology Chapter-11: Photosynthesis in Higher Plants Chapter-12: Respiration in Plants Chapter-13: Plant - Growth and Development	Chapter-2: Biological Classification Chapter-3: Plant Kingdom Chapter-4: Animal Kingdom Unit-II Structural Organization in Plants and Animals Chapter-5: Morphology of Flowering Plants Chapter-6: Anatomy of Flowering Plants Chapter-7: Structural Organisation in Animals Unit-III Cell: Structure and Function Chapter-8: Cell-The Unit of Life Chapter-9: Biomolecules Chapter-10: Cell Cycle and Cell Division Unit-IV Plant Physiology Chapter-11: Photosynthesis in Higher Plants Chapter-12: Respiration in Plants

		in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound). 2. Preparation and study of T.S. of dicot and monocot roots and stems (primary). 3. Study of osmosis by potato osmometer. 6. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves. 8. Separation of plant pigments through paper chromatography. 9. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds. 10. Test for presence of urea in urine. 11. Test for presence of sugar in urine. B. Study and Observe the following (spotting): 1. Parts of a compound microscope. 2. Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one		Chapter-13: Plant - Growth and Development Unit-V Human Physiology Chapter-14: Breathing and Exchange of Gases Chapter-15: Body Fluids and Circulation Chapter-16: Excretory Products and their Elimination Chapter-17: Locomotion and Movement Chapter-18: Neural Control and Coordination Chapter-19: Chemical Coordination and Integration ***PRACTICAL EXPERIMENTS*** 1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and

		dicotyledonous plant and one lichen. 3. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.		ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound). 2. Preparation and study of T.S. of dicot and monocot roots and stems (primary). 3. Study of osmosis by potato osmometer. 4. Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb). 5. Study of distribution of stomata on the upper and lower surfaces of leaves. 6. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves. 7. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials. 8. Separation of plant pigments through paper chromatography. 9. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds. 10. Test for presence of urea in urine.

				11. Test for presence of sugar in urine. 12. Test for presence of albumin in urine. 13. Test for presence of bile salts in urine. B. Study and Observe the following (spotting): 1. Parts of a compound microscope. 2. Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonousplant, one dicotyledonous plant and one lichen. 3. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit. 4. Mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides. 5. Different types of inflorescence (cymose and racemose). 6. Human skeleton and different types of joints with

				the help of virtual images/models only
Mathematics (Regular Mathematics)	***MATHEMATICS (NCERT BOOK AND EXEMPLAR)*** 1. Sets 2. Relations and Functions 3. Trigonometric functions 4. Sequence and Series 5. Permutations and Combinations	***MATHEMATICS (NCERT BOOK AND EXEMPLAR)*** 1.Trigonometry Function 2.Complex number and Quadratic Equation 3.Sequence and Series 4. Permutations and Combinations 5. Sets 6. Relations and Functions 7. Limits 8. Straight line 9. Trigonometry Function	***MATHEMATICS (NCERT BOOK AND EXEMPLAR)*** 1. Conic Sections 2. Derivatives 3. statistics	***MATHEMATICS (NCERT BOOK AND EXEMPLAR)*** 1.Trigonometry Function 2.Complex number and Quadratic Equation 3.Sequence and Series 4. Permutations and Combinations 6. Sets 7. Relations and Functions 8. Limits 9. Straight line 10. Conic Sections 11. Derivatives 12. Statistics 13. Binomial Theorem 14. Probabilities
Mathematics (Applied Mathematics)	***MATHEMATICS (NCERT BOOK AND EXEMPLAR)*** 1. Sets 2. Relations and Functions 3. Number , Quantification and numerical Applications	***MATHEMATICS (NCERT BOOK AND EXEMPLAR)*** 1. Sets 2. Relations and Functions 3. Number , Quantification and numerical Applications 4. Sequence and Series	***MATHEMATICS (NCERT BOOK AND EXEMPLAR)*** 1. Descriptive mathematics 2. Basic of financial Mathematics	***MATHEMATICS (NCERT BOOK AND EXEMPLAR)*** 1. Sets 2. Relations and Functions 3. Number , Quantification and numerical Applications 4. Sequence and Series

	4. Sequence and Series 5. Permutations and Combinations	5. Permutations and Combinations 6. Limits and derivatives and functions 7. Probability 8. Coordinate geometry (straight line , circle and parabola)		5. Permutations and Combinations 6. Limits and derivatives and functions 7. Probability 8. Coordinate geometry (straight line , circle and parabola) 9. Descriptive mathematics 10. Basic of financial Mathematics 11. Mathematical Reasoning
Physical Education	CH: 1.Changing Trends and Career in Physical Education. CH: 2. Olympism CH: 3. Yoga.	CH: 1.Changing Trends and Career in Physical Education. CH: 2. Olympism CH: 3. Yoga. CH: 4. Physical Education & Sports for CWSN (Children with special needs – DIVYANG) CH: 5. Physical Fitness, Health and Wellness. CH: 6. Test, Measurement & Evaluation. ***PRACTICAL-1*****:** Fitness test Administration. (SAI Khelo India Test) ***PRACTICAL-2***: Procedure for Asana, benefits & Contraindication for any two Asana for each Lifestyle disease.	CH: 7. Fundamentals of Anatomy, Physiology in sports. CH: 8. Fundamentals of Kinesiology and Biomechanics in sports. CH: 9. Psychology &Sports.	CH: 1.Changing Trends and Career in Physical Education. CH: 2. Olympism CH: 3. Yoga. CH: 4. Physical Education & Sports for CWSN (Children with special needs – DIVYANG) CH: 5. Physical Fitness, Health and Wellness. CH: 6. Test, Measurement & Evaluation. CH: 7. Fundamentals of Anatomy, Physiology in sports. CH: 8. Fundamentals of Kinesiology and Biomechanics in sports. CH: 9. Psychology &Sports. CH: 10. Training and Doping in Sports.

				PRACTICAL-1*:** Fitness test Administration. (SAI Khelo India Test) ***PRACTICAL-2: Procedure for Asana, benefits & Contraindication for any two Asana for each Lifestyle disease. ***PRACTICAL-3*:** Any One IOA recognized Sports/ Game Of choice. Labelled Diagram of Field & Equipment. Also mention its Rules, Terminologies & Skills.
Painting	Pre-historic Rock Paintings and Art of Indus Valley	Buddhist, Jain and Hindu Art	Temple Sculptures, Bronzes and Artistic Aspects of Indo-Islamic Architecture	Pre-historic Rock Paintings and Art of Indus Valley Buddhist, Jain and Hindu Art Temple Sculptures, Bronzes and Artistic Aspects of Indo-Islamic Architecture
Computer Sc	***COMPUTER SCIENCE WITH PYTHON (SUMITA ARORA)*** Ch1:- Computer System Overview Ch2:- Data Representation CH3:- Boolean Logic	***COMPUTER SCIENCE WITH PYTHON (SUMITA ARORA)*** Ch 4:- Introduction to Problem Solving Ch 5:- Getting Started with Python Ch 6:- Python Fundamentals Ch 7:- Data Handling Ch 8:- Introduction to Python Module Ch9:- Flow of Control Ch10:-String Manipulation ***PRACTICAL***	***COMPUTER SCIENCE WITH PYTHON (SUMITA ARORA)*** Ch11:- List Manipulation CH12:- Tuples CH13::- Dictionaries	***COMPUTER SCIENCE WITH PYTHON (SUMITA ARORA)*** Ch1:- Computer System Overview Ch2:- Data Representation CH3:- Boolean Logic Ch5:- Introduction to Problem Solving Ch6:- Getting Started with Python Ch7:- Python Fundamentals Ch8:- Data

		● Input a welcome message and display it. ● Input two numbers and display the larger / smaller number. ● Input three numbers and display the largest / smallest number. ● Determine whether a number is a perfect number, an Armstrong number or a palindrome. ● Input a number and check if the number is a prime or composite number. ● Display the terms of a Fibonacci series. ● Compute the greatest common divisor and least common multiple of two integers. ● Count and display the number of vowels, consonants, uppercase, lowercase characters in string. ● Input a string and determine whether it is a palindrome or not; convert the case of characters in a string		Handling Ch9:- Flow of Control Ch10:-String Manipulation Ch11:- List Manipulation Ch 12:- Tuples CH13:- Dictionaries Ch 14:- Cyber Safety Ch 15:- Society, Law and Ethics ***PRACTICAL*** ● Find the largest/smallest number in a list/tuple ● Input a list of numbers and swap elements at the even location with the elements at the odd location. ● Input a list/tuple of elements, search for a given element in the list/tuple. ● Create a dictionary with the roll number, name and marks of n students in a class and display the names of students who have marks above 75.
Informatics Practices	1. Computer System 2.Emerging Trend 3. Brief overview of Python	1. Computer System 2.Emerging Trend 3. Brief overview of Python 4. Working with List and Dictionaries 5. Understanding Data ***Practical*** **(Python)** 1. To find average and grade for given marks.	6.Introduction to NumPy 7. Database Concepts 8. Introduction to Structured Query Language	1. Computer System 2.Emerging Trend 3. Brief overview of Python 4. Working with List and Dictionaries 5. Understanding Data 6.Introduction to NumPy 7. Database Concepts 8. Introduction to Structured Query Language

		2. To find sale price of an item with given cost and discount (%). 3. To calculate perimeter/circumference and area of shapes such as triangle, rectangle, square and circle. 4. To calculate Simple and Compound interest. 5. To calculate profit-loss for given Cost and Sell Price. 6. To calculate EMI for Amount, Period and Interest. 7. To calculate tax - GST / Income Tax. 8. To find the largest and smallest numbers in a list. 9. To find the third largest/smallest number in a list. 10. To find the sum of squares of the first 100 natural numbers.		***Practical*** **(Python)** 11. To print the first 'n' multiples of given number. 12.To count the number of vowels in user entered string. 13.To print the words starting with a alphabet in a user entered string. 14.To print number of occurrences of a given alphabet in each string. 15.Create a dictionary to store names of states and their capitals. 16.Create a dictionary of students to store names and marks obtained in 5 subjects. 17.To print the highest and lowest values in the dictionary. **(DBMS)** 1. To create a database 2. To create student table with the student id, class, section, gender, name, dob, and marks as attributes where the student id is the primary key. 3. To insert the details of at least 10 students in the above table. 4. To display the entire content of table. 5. To display Rno, Name and Marks of those students who are scoring marks more than 50.

				6. To display Rno, Name, DOB of those students who are born between ‘2005-01-01’ and ‘2005-12-31’.