AUROBINDO INTERNATIONAL SCHOOL

(An English Medium Co-Educational Senior Secondary School, Affiliated to CBSE)

Contact No. 0141-2240823/339Mob: +918696906818

Session 2023-2024
Class XI
Subject : English

BOOKS:Hornbill/Snapshots

Ch.No.	Ch. Name	Month	PA I 20 Marks	Half Yearly (80)	PA II 20 Marks	Annual Exam (80)
WRITING						
Classified Advertisement/Notice		**April/May**	√	√		√
Speech Writing		**July**		√		√
Note Making		**September**		√		√
Poster		**July**			√	√
Debate		**August**				√
Speech/Debate		**January**				√
GRAMMAR						
1. Tenses		**April/May**	√	√		√
2. Clauses		**August**		√		√
3. Transformation of Sentences		**July**				√
Hornbill						
Unit 1	The Portariat of a Lady	**April/May**	√	√		
Unit 2	We're Not Afraid to Die….If We Can All Be Together	**April/May**		√		√
Unit 3	Discovering Tut: The Saga Continues	**July**			√	√
Unit 4	Landscape of the Soul	**August**				√
Unit 7	The Adventure	**October**				√
Unit 8	Silk Road	**Nov/December**				√
POEM						
	A Photograph	**April/May**	√	√		√
	The Laburnum Top	**July**		√		√
	The Voice of the Rain	**August**			√	√
	Childhood	**September**				√
	Father to Son	**October**				√
	Snapshots					√
Ch-1	The Summer of the Beautiful White Horse	**April/May**	√	√		√
Ch-2	The Address	**July**	√	√		√
Ch-5	Mother's Day	**October**			√	√
Ch-7	Birth	**November**				√
Ch-8	The Tale of Melon City	**December**				√

INTERNAL MARKING

Assessment of Listening Skills	05
Assessment of Speaking Skills	05
Project Work	10
	20

Question Paper Design 2023-24 English

Section	Competencies	Total marks
Reading Skills	Conceptual understanding, decoding, Analyzing, inferring, interpreting, appreciating, literary, conventions and vocabulary, summarizing and using appropriate format/s.	26
Creative Writing Sills	Conceptual Understanding, application of rules, Analysis, Reasoning, appropriacy of style and tone, using appropriate format and fluency, inference, analysis, evaluation and creativity.	23
Literature Text Books and Supplementary Reading Texts	Recalling, reasoning, appreciating literary convention, inference, analysis, creativity with fluency, Critical Thinking.	31
	TOTAL	**80**

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Session 2023-2024

Class XI

Subject: Biology

Book Name: Biology Class XI (NCERT)

Subject : Science Biology						
Ch.No.	**Ch. Name**	**Month**	**PA I 20 Marks**	**Half Yearly (70)**	**PA II 20 Marks**	**Annual Exam (70)**
Chapter-1	The Living World	April	√	√		√
Chapter-2	Biological Classification	April/May	√	√		√
Chapter-3	Plant Kingdom	May/July		√		√
Chapter-4	Animal Kingdom	July		√		√
Chapter-5	Morphology of flowering plants	July		√		√
Chapter-6	Anatomy of Flowering Plants	August		√		√
Chapter-7	Structural Organisation in Animals	August		√		√
Chapter-8	Cell- The Unit of Life	August		√		√
Chapter-9	Biomolecules	August		√		√
Chapter-10	Cell Cycle and Cell Division	September		√	√	√
Chapter-13	Photosynthesis in Higher Plants	January				√
Chapter-14	Respiration in Plants	January				√
Chapter-15	Plant - Growth and Development	October			√	√
Chapter-17	Breathing and Exchange of Gases	November				√
Chapter-18	Body Fluids and Circulation	November				√
Chapter-19	Excretory Products and their Elimination	November			√	√
Chapter-20	Locomotion and Movement	December				√
Chapter-21	Neural Control and Coordination	December				√
Chapter-22	Chemical Coordination and Integration	December				√

➢ CBSE Class 11 Biology Practical Syllabus

Evaluation Scheme	**Marks**
One Major Experiment Part A (Experiment No – 1, 3, 7, 8)	5
One Minor Experiment Part A (Experiment No – 6, 9, 10, 11, 12, 13)	4
Slide Preparation Part A (Experiment No – 2, 4, 5)	5
Spotting Part B	7
Practical Record + Viva Voce	4
Project Record + Viva Voce	5
Total	**30**

➢ PA-I EXAM

Evaluation Scheme		
Theory		
CHAPTER	**Topics**	**Marks**
Chapter-1	The Living World	08
Chapter-2	Biological Classification	12
	Total Theory	**20**

➢ HALF- YEARLY EXAM

Evaluation Scheme		
Theory		
Units	**Topics**	**Marks**
I	Diversity of Living Organisms	25
II	Structural Organisation in Plants and Animals	25
III	Cell: Structure and Function	20
	Total Theory	**70**

➢ PA-II EXAM

Evaluation Scheme		
Theory		
CHAPTER	**Topics**	**Marks**
Chapter-13	Photosynthesis in Higher Plants	06
Chapter-14	Respiration in Plants	06
Chapter-15	Plant - Growth and Development	08
	Total Theory	**20**

➢ Final Exam scheme

Evaluation Scheme		
Theory		
Units	**Topics**	**Marks**
I	Diversity of Living Organisms	15
II	Structural Organisation in Plants and Animals	10
III	Cell: Structure and Function	15
IV	Plant Physiology	12
V	Human Physiology	18
	Total Theory	**70**

Subject: **Chemistry (Code No. 043)**

Prescribed Books:

1. **Chemistry Part-I, Textbook for Class XI, Published by NCERT**
2. **Chemistry Part-II, Textbook for Class XI, Published by NCERT**

Unit No.	Unit Name with Chapter No. and Name	Month	PA-I 20 Marks	Half Yearly 70 Marks	PA-II 20 Marks	Annual Exam 70 Marks
Unit–I	Some Basic Concepts of Chemistry	April/May	√	√		√
Unit-II	Structure of Atom	July	√	√		√
Unit–III	Classification of Elements and Periodicity in Properties	August		√		√
Unit–IV	Chemical Bonding and Molecular Structure	August/ September		√		√
Unit–V	Chemical Thermodynamics	September		√		√
Unit-VI	Equilibrium	October/November			√	√
Unit–VII	Redox Reactions	November			√	√
Unit–VIII	Organic Chemistry: Some basic Principles and Techniques	December				√
Unit–IX	Hydrocarbons	December /January				√

PRACTICALSYLLABUS

Total Periods: 60

Micro-chemical methods are available for several of the practical experiments, wherever possible such techniques should be used.

A. Basic LaboratoryTechniques

1. Cutting glass tube and glassrod
2. Bending a glasstube
3. Drawing out a glassjet
4. Boring a cork

B. Characterization and Purification of ChemicalSubstances

1. Determination of melting point of an organic compound.
2. Determination of boiling point of an organic compound.
3. Crystallization of impure sample of any one of the following: Alum, Copper Sulphate, Benzoic Acid.

C. Experiments based onpH

1. Any one of the following experiments:
   - 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 universalindicator.Comparing the pH of solutions of strong and weak acids of same concentration. Study the pH change in the titration of a strong base using universal indicator.

2. Study the pH change by common-ion in case of weak acids and weak bases.

D. ChemicalEquilibrium

One of the following experiments:

1. Study the shift in equilibrium between ferric ions and thiocyanate ions by increasing/decreasing the concentration of either of theions.
2. Study the shift in equilibrium between $[Co(H_2O)_6]^{2+}$ and chloride ions by changing the concentration of either of the ions.

E. QuantitativeEstimation

1. Using a mechanical balance/electronicbalance.
2. Preparation of standard solution of Oxalicacid.
3. Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalicacid.
4. Preparation of standard solution of Sodiumcarbonate.
5. Determination of strength of a given solution of hydrochloric acid by titrating it against standard Sodium Carbonatesolution.

F. QualitativeAnalysis

1. Determination of one anion and one cation in a givensalt

Cation:

Pb^{2+}, Cu^{2+} As^{3+}, $A\ell^{3+}$, Fe^{3+}, Mn^{2+}, Zn^{2+}, Ni^{2+}, Ca^{2+}, Sr^{2+}, Ba^{2+}, Mg^{2+}, NH_4^+

Anions:

$(CO_3)^{2-}$, S^{2-}, $(SO_3)^{2-}$, $(NO_2)^-$, $(SO_4)^{2-}$, $C\ell^-$, Br^-, I^-, $(PO_4)^{3-}$, $(C_2O_4)^{2-}$, CH_3COO^-, NO_3^-

(Note: Insoluble salts excluded)

2. Detection of -Nitrogen, Sulphur, Chlorine in organic compounds.

G. PROJECTS

Scientific investigations involving laboratory testing and collecting information from other sources.

A few suggested Projects

- Checking the bacterial contamination in drinking water by testing sulphideion
- Study of the methods of purification ofwater
- Testing the hardness, presence of Iron, Fluoride, Chloride, etc., depending upon the regional variation in drinking water and study of causes of presence of these ions above permissible limit (if any).
- Investigation of the foaming capacity of different washing soaps and the effect of addition of Sodium carbonate onit
- Study the acidity of different samples of tealeaves.
- Determination of the rate of evaporation of differentliquids.
- Study the effect of acids and bases on the tensile strength offibers.
- Study of acidity of fruit and vegetablejuices.

Note: Any other investigatory project, which involves about 10 periods of work, can be chosen with the approval of the teacher.

Evaluation Scheme for Practical Examination

Time: 3Hours **TotalMarks: 30**

Evaluation Scheme for Examination	Marks
Volumetric Analysis	08
Salt Analysis	08
Content Based Experiment	06
Project Work	04
Class record and viva	04
Total	**30**

Evaluation Scheme for Theory Examination

Time:3Hours **Total Marks: 70**

S.N.	UNIT	PERIODS	MARKS
1	Some Basic Concepts of Chemistry	18	7
2	Structure of Atom	20	9
3	Classification of Elements and Periodicity in Properties	12	6
4	Chemical Bonding and Molecular Structure	20	7
5	Chemical Thermodynamics	23	9
6	Equilibrium	20	7
7	Redox Reactions	9	4
8	Organic Chemistry: Some basic Principles and Techniques	20	11
9	Hydrocarbons	18	10
	TOTAL	**160**	**70**

Subject: **Physics (Code No. 042)**

Prescribed Books:

1. **Physics Part-I, Textbook for Class XI, Published by NCERT**
2. **Physics Part-II, Textbook for Class XI, Published by NCERT**

Unit No.	Unit Name with Chapter No. and Name	Month	PA-I 20 Marks	Half Yearly 70 Marks	PA-II 20 Marks	Annual Exam 70 Marks
Unit–I	**Physical World and Measurement**					
	Chapter–2:Units and Measurements	April	√	√		√
Unit-II	**Kinematics**					
	Chapter–3: Motion in a Straight Line	April/May	√	√		√
	Chapter–4:Motion in a Plane	May		√		√
Unit–III	**Laws of Motion**					
	Chapter–5:Laws of Motion	July		√		√
Unit–IV	**Work, Energy and Power**					
	Chapter–6:Work, Energy and Power	July		√		√
Unit–V	**Motion of System of Particles and RigidBody**					
	Chapter–7: System of Particles and Rotational Motion	August		√		√
Unit-VI	**Gravitation**					√
	Chapter–8: Gravitation	August/ September		√		√
Unit–VII	**Properties of Bulk Matter**					
	Chapter–9: Mechanical Properties of Solids	October			√	√
	Chapter–10: Mechanical Properties of Fluids	October			√	√
	Chapter–11: Thermal Properties of Matter	November			√	√
Unit–VIII	**The rmodynamics**					
	Chapter–12: Thrmodynamics	November/ December				√
Unit–IX	**Behaviour of Perfect Gases and Kinetic Theory of Gases**					
	Chapter–13:Kinetic Theory	December				√
Unit–X	**Oscillations and Waves**					
	Chapter–14:Oscillations	January				√
	Chapter–15:Waves	January				√

SUBJECT: PHYSICS PRACTICAL (042)

Sr. No.	Name of the Experiment	Month
1	To measure internal diameter and depth of a given beaker/calorimeterusing Vernier Callipers and hence find its volume.	July
2	To measure diameter of a given wire and thickness of given sheet using screw gauge.	July
3	To find the weight of a given body using parallelogram law of vectors.	August
4	Using a simple pendulum, Plot its L-T^2 graph and use it to find the effective length of second's pendulum.	September
5	To find the force constant of a helical spring by plotting a graph between load and extension.	November
6	To study the relationship between the temperature of a hot body andtime by plotting a cooling curve.	December
7	To study the relation between frequency and length of a given wire under constant tension using sonometer.	January
8	To find the speed of sound in air at room temperature using a resonance tube by two resonance positions.	January

Class XI – 2023-24 (Theory)

Time: 3 hrs. **Max Marks: 70**

		Marks
Unit–I	**Physical World and Measurement**	**23**
Unit-II	**Kinematics**	
Unit–III	**Laws of Motion**	
Unit–IV	**Work, Energy and Power**	**17**
Unit–V	**Motion of System of Particles and RigidBody**	
Unit-VI	**Gravitation**	
Unit–VII	**Properties of Bulk Matter**	**20**
Unit–VIII	**Thermodynamics**	
Unit–IX	**Behaviour of Perfect Gases and KineticTheory of Gases**	
Unit–X	**Oscillations and Waves**	**10**
Total		**70**

PRACTICAL
EVALUATION SCHEME

Time 3 hours **Max. Marks: 30**

Topic	Marks
Two experiments one from each section	7+7
Practical record (experiment and activities)	5
One activity from any section	3
Investigatory Project	3
Viva on experiments, activities and project	5
Total	**30**

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Session 2023-2024

Class XI

Subjects :- Mathematics

Ch.No.	Ch. Name	Month	PA I 20 Marks	Half Yearly (80)	PA II 20 Marks	Annual Exam (80)
Unit-I: Sets and Functions						
Ch-1	Sets	April	√	√		√
Ch-2	Relations & Functions	April	√	√		√
Ch-3	Trigonometric Functions	May		√		√
Unit-II: Algebra						√
Ch-4	Complex Numbers and Quadratic Equations	May/July		√		√
Ch-5	Linear Inequalities	July		√		√
Ch-6	Permutations and Combinations	July/August		√		√
Ch-7	Binomial Theorem	August		√		√
Ch-8	Sequence and Series	August				√
Unit-III: Coordinate Geometry						√
Ch-9	Straight Lines	September			√	√
Ch-10	Conic Sections	October			√	√
Ch-11	Introduction to Three-dimensional Geometry	October			√	√
Unit-IV: Calculus						√
Ch-12	Limits and Derivatives	November				√
Unit-V Statistics and Probability						√
Ch-13	Statistics	November				√
Ch-14	Probability	December				√

No.	Units	No. of Periods	Marks
I.	Sets and Functions	60	23
II.	Algebra	50	25
III.	Coordinate Geometry	50	12
IV.	Calculus	40	08
V.	Statistics and Probability	40	12
	Total	**240**	**80**
	Internal Assessment		**20**

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Session 2023-2024
Class XI
Subject: **Informatics Practices**

Book Name: Informatics Practices XI

Subject : Informatics Practices						
Ch.No.	**Ch. Name**	**Month**	**PA I 20 Marks**	**Half Yearly (70)**	**PA II 20 Marks**	**Annual Exam (70)**
Ch-1	Computer System	April	√	√		√
Ch-2	Getting started with Python	April/May	√	√		√
Ch-3	Python Fundamentals	July		√		√
Ch-4	Data Handling	July/August		√		√
Ch-5	Flow of control	August		√		√
Ch-6	List Manipulation	October			√	√
Ch-7	Dictionaries	November				√
Ch-10	Database concepts	November			√	√
Ch-11	Structured Query Language	December/January				√
Ch-12	Emerging Trends	January				√

Theory Marks Distribution

UnitNo	Unit Name	Marks
1	Introduction to computer system (Ch-1)	10
2	Introduction to Python (Ch-2 To Ch-7)	25
3	Database concepts and the Structured Query Language (Ch-10, Ch-11)	30
4	Introduction to Emerging Trends (Ch-12)	5
	Total	**70**

Practical Marks Distribution

S.No.	Unit Name	Marks
1	Problem solving using Python programming language	11
3	Creating data base using My SQL and performing Queries	**7**
4	Practical file (minimum of 14 python programs, and 14 SQL queries)	7
5	Viva-Voce	5
	Total	**30**