

# SYLLABUS FOR THE YEAR 2020-2021

## CLASS :XI (SCIENCE)

ENGLISH CORE		
Quarterly Examination	<b>Reading</b>	--
	<b>Writing</b>	Notice
	<b>Grammar</b>	Tenses
	<b>Literature : Hornbill : Prose</b>	Chapter 1 – The Portrait of a Lady, Chapter 2 "We're Not Afraid to Die....."
	<b>Poetry</b>	A Photograph
	<b>Snapshots</b>	Chapter 1- The Summer of the Beautiful White Horse Chapter 2 – The Address
Half-yearly Examination	<b>Reading</b>	Reading Comprehension
	<b>Writing</b>	Poster
	<b>Grammar</b>	Determiners
	<b>Literature : Hornbill : Prose</b>	Chapter 3 – Discovering Tut, Chapter 4 – Landscape of the Soul, Chapter 5 The Ailing Planet, Chapter 6 The Browning Version, Chapter 8 Silk Road
	<b>Poetry</b>	The Laburnam Top , The Voice of the Rain
	<b>Snapshots</b>	Chapter 3 Ranga's Marriage, Chapter 4 – Albert Einstein At School, Chapter 5 – Mother's Day, <b>N.B. :(Quarterly Course Included)</b>
Annual Examination	<b>Reading</b>	Note Making and Summarising
	<b>Writing</b>	Notice + Poster
	<b>Grammar</b>	Tenses + Determiners
	<b>Literature : Hornbill : Prose</b>	Entire book
	<b>Poetry</b>	Childhood
	<b>Snapshots</b>	Chapter 7 - Birth <b>N.B. : (Full course as prescribed by CBSE)</b>
<b>DELETED TOPICS AS PER CBSE CURRICULUM [2020-2021]</b>		
<p><b>Writing</b></p> <ul style="list-style-type: none"> <li>● Classified Advertisements,</li> <li>● <b>Letters to the editor (giving suggestions/opinions on an issue) Provide realistic context in the form of newspaper report/article to which the students may respond.</b></li> <li>● <b>Application for a job with a bio-data or résumé</b></li> <li>● Article &amp; Report Writing ● Narrative</li> </ul> <p><b>Grammar</b></p> <ul style="list-style-type: none"> <li>● Modals ● Clauses ● Change of Voice ● Error Correction, editing task/cloze passages</li> </ul> <p><b>Literature</b></p> <p>Hornbill</p> <ul style="list-style-type: none"> <li>● Father To Son ● The Adventure</li> </ul> <p><b>Snapshots</b></p> <ul style="list-style-type: none"> <li>● The Ghat of the Only World ● The Tale of Melon City</li> </ul>		
<b>PHYSICS</b>		
Quarterly Examination	<b><u>ACCORDING TO NCERT BOOK</u></b>	
	CHAPTER: -1, 2,3,4	
	<b>DELETED PORTION :CHAPTER 1 OF NCERT</b>	
	<b>Chapter–1:</b> Physical World Physics-scope and excitement; nature of physical laws; Physics, technology and society (To be discussed as a part of Introduction and integrated with other topics)	
	<b>Chapter-3 :</b> Motion in a straight line Frame of reference, Motion in a straight line: Position-time graph, speed and velocity	
	<b>Chapter 4 – Nothing is deleted</b>	

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Half-Yearly Examination	Chapter 5,6, 7,8 + Quarterly Course (as per NCERT Chapter Numbers)
	<p><b>DELETED PORTION</b></p> <p><b>Chapter-5</b> Laws of Motion Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion</p> <p><b>Chapter-7</b> System of Particles and Rotational Motion Statement of parallel and perpendicular axes theorems and their applications.</p> <p><b>Chapter-8</b> Gravitation Kepler's laws of planetary motion, Acceleration due to gravity</p>
YEARLY	FULL COURSE AS PER CBSE SYLLABUS 2020-21
	<p><b>DELETED PORTION</b></p> <p><b>Chapter-9</b> Mechanical Properties of Solids Elastic behaviour, shear modulus of rigidity, Poisson's ratio; elastic energy</p> <p><b>Chapter-11</b> Thermal properties matter Heat, temperature, Heat transfer-conduction, convection and radiation</p> <p><b>Chapter-12</b> Thermodynamics Heat engine and refrigerator.</p> <p><b>Chapter-15</b> Waves fundamental mode and harmonics, Doppler effect.</p> <p><b>Practicals:</b> No investigatory project and Activity to be demonstrated 8 experiments (clubbed based on skills ) in place of 12</p>
Annual Examination	FULL COURSE AS PER CBSE SYLLABUS 2020-21
	Unit I - Some Basic Concepts of Chemistry
<b>CHEMISTRY</b>	
Quarterly Examination	<p><b>CHAPTER -1,2,3,4</b></p> <p><b>Omitted Topics :</b></p> <p>Unit – I <b>Some Basic Concepts of Chemistry</b> :Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules.</p> <p>Unit – II <b>:Structure of Atom</b> - Discovery of Electron, Proton and Neutron, atomic number, isotopes and isobars. Thomson's model and its limitations. Rutherford's model and its limitations</p> <p>Unit – III <b>:Classification of Elements and Periodicity in Properties</b> : Significance of classification, brief history of the development of periodic table.</p>
Half-Yearly Examination	<p><b>Quarterly Course + 5,6,7,8</b></p> <p><b>Omitted Topics :</b></p> <p>Unit - V <b>States of Matter Gases and Liquids</b> : liquefaction of gases, critical temperature, kinetic energy and molecular speeds (elementary idea), Liquid State- vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations)</p> <p>Unit - VI <b>Chemical Thermodynamics</b> : Heat capacity and specific heat capacity, Criteria for equilibrium</p> <p>Unit VII - Equilibrium hydrolysis of salts (elementary idea), Henderson Equation</p> <p>Unit - VIII <b>Redox Reactions</b> : applications of redox reactions</p>

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	<b>FULL COURSE AS PER CBSE SYLLABUS</b>								
Annual Examination	<p><b>Omitted Topics :</b></p> <p>Unit IX- <b>Hydrogen</b>:Preparation, properties and uses of hydrogen, hydrogen peroxide -preparation, reactions and structure and use;</p> <p>Unit X - <b>s -Block Elements</b>- Preparation and Properties of Some Important Compounds:Sodium Carbonate, Sodium Chloride, Sodium Hydroxide and Sodium Hydrogen carbonate, Biological importance of Sodium and Potassium. Calcium Oxide and Calcium Carbonate and their industrial uses, biological importance of Magnesium and Calcium.</p> <p>Unit XI -<b>Some p-Block Elements</b> :Some important compounds: Borax, Boric acid, Boron Hydrides,Aluminium: Reactions with acids and alkalies, uses.Carbon: uses of some important compounds: oxides. Important compounds of Silicon and a few uses: Silicon Tetrachloride,Silicones, Silicates and Zeolites, their uses.</p> <p>Unit XII -<b>Organic Chemistry</b>:Some basic Principles and Techniques methods of purification, qualitative and quantitative analysis</p> <p>Unit XIII -<b>Hydrocarbons</b>- free radical mechanism of halogenation, combustion and pyrolysis.</p> <p>Unit XIV - <b>Environmental Chemistry</b> : Entire chapter is omitted.</p>								
<b>BIOLOGY</b>									
Quarterly Examination	<p>Chapter 1 – The Living World</p> <p>Chapter 2 – Biological Classification</p> <p>Chapter 3 – Plant Kingdom</p> <p>Chapter 4 – Animal Kingdom</p> <p>Chapter 5 – Morphology of Flowering Plants (Only Morphology of flower and description of family liliacea, solanaceae)</p> <p>Chapter 7 – Structural Organisation in animals (Animal tissue)</p>								
Half-Yearly Examination	<p>Chapter 1, 2, 3, 4, 5, 7 and</p> <p>Chapter 8 – Cell</p> <p>Chapter 9 – Biomolecules</p> <p>Chapter 10 – Cell Cycle and Cell Division</p> <p>Chapter 13 – Photosynthesis in Higher Plants</p> <p>Chapter 14 – Respiration in Plants</p> <p>Chapter 15 – Plant Growth and Development (Only Plant Growth regulators)</p>								
Annual Examination	<p>Chapter 1, 2, 3, 4, 5, 7, 8, 9, 10, 13, 14, 15 and</p> <p>Chapter 17 – Breathing and Exchange of Gases</p> <p>Chapter 18 – Body Fluids and Circulation</p> <p>Chapter 19 – Excretory Products and Their Assimilation</p> <p>Chapter 20 – Locomotion and Movement (Included Only Muscle, Structure of Contractile Proteins, Mechanism of Muscle Contraction)</p> <p>Chapter 21 – Neural System, Human Neural System, Neuron Generation and Conduction of Nerve Impulse, Transmission of Impulses, Central Nervous System</p> <p>Chapter 22 – Chemical Coordination and Integration</p>								
	<p><b>ASSESSMENT AREAS THEORY 2020-21</b></p> <p><b>TIME : 3 HRS MAXIMUM MARKS : 70</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;"><b>COMPENTENCIES</b></th> </tr> </thead> <tbody> <tr> <td>Demonstrate knowledge and understanding</td> <td style="text-align: center;"><b>50%</b></td> </tr> <tr> <td>Application of Knowledge</td> <td style="text-align: center;"><b>30%</b></td> </tr> <tr> <td>Analyse, Evaluate and Create</td> <td style="text-align: center;"><b>20%</b></td> </tr> </tbody> </table>	<b>COMPENTENCIES</b>		Demonstrate knowledge and understanding	<b>50%</b>	Application of Knowledge	<b>30%</b>	Analyse, Evaluate and Create	<b>20%</b>
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Application of Knowledge	<b>30%</b>								
Analyse, Evaluate and Create	<b>20%</b>								
	<p><b>TYPE OF QUESTIONS : VSA</b> Including MCQs, Assertion Reasoning Type questions, SA; LA-I, LA-II Source Based / Case Based / Passage Based Internal Choice of 33%</p>								

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DELETED PORTIONS :		
Unit 1	Chapter 1	Taxonomical Aids
	Chapter 3	(Only Topic Angiospermae, Angiosperm Classification Upto classes, features, example deleted)
Unit 2	Chapter 5	<b>Morphology and Modifications</b> ; Morphology of different part os flowering plant root, stem, leaf, fruit and seed. Description of family fabaceae deleted
	Chapter 6	Anatomy and functions of different tissues and tissue systems in Dicots and Monocots, secondary growth deleted.
	Chapter 7	Morphology, Anatomy and Functions of different systems of an insect (Cockroach is deleted)
Unit 4	Chapter 11	<b>Tranport in Plants</b> , completely deleted
	Chapter 12	<b>Mineral Nutrition</b> , completely deleted
	Chapter 15	<b>Plant Growth and Development</b> , seed germination, phases of plant growth, plant growth rate, conditions of growth, differentiation, dedifferentiation and redifferentiation, sequence of developmental processes in plant. Seed dormancy vernalisation; photoperiodism deleted.
Unit 5	Chapter 16	Digestion and absorption completely deleted.
	Chapter 20	<b>Locomotion and Movement</b> ; types of movements – cilliary, flagellar, muscular skeletal system and its functions, joints disorders of muscular and skeletal system deleted
	Chapter 21	<b>Neural Control and Coordination</b> : Reflex action, sensory perception, sense organs. Elementary structure and functions of eye and ear deleted.

## MATHEMATICS

<b>Quarterly Examination (Pre Mid-Term)</b> <i>Maximum marks to be converted into 10 marks</i>	Chapter 1, 2, 6, 12 and 15
<b>Half-Yearly Examination (Mid-Term)</b> <i>Maximum marks to be converted into 10 marks</i>	Chapter 3, 7, 9, 16 + QUARTERLY Syllabus * Chapter 8 Deleted
<b>ANNUAL EXAMINATION</b> <i>Maximum marks to be converted into 10 marks</i>	Mid-Term Syllabus + Chapter 5, 10,11 *Chapter 4 Deleted

**Remarks : The Best two performance will be taken and converted into 10 marks**

<b>Maths Activity</b>	Throughout the Academic Session any 10 activities shall be performed by a student out of 10, One will be given in an year end test on the activity		
	Record Keeping	5 marks	
	Year End Test	3 marks	
	Viva Voce	2 marks	
<b>TOTAL</b>	<b>10 marks</b>		
<b>Annual Exam / Board Exam</b> <b>Time Duration : 3 Hours</b> <b>M.M. : 80 Marks</b>	33% internal choices will be given Full Course other than Chapters 4, 8, 14 *Please refer CBSE reduced syllabus.		
	Objective / VSA	1 × 20	20 Marks
	SA Type I	2 × 6	12 Marks
	SA Type II	4 × 6	24 marks
	Long Answers	4 × 6	24 marks
		<b>TOTAL</b>	<b>80 marks</b>

### DELETED CHAPTERS AS PER CBSE CURRICULUM :-

#### UNIT- I: SETS AND FUNCTIONS

Chapter 1.Sets ● Difference of sets.● Complement of a set. Properties of Complement

Chapter 2.Relations & Functions ● (up to  $R \times R \times R$  ) ● Sum, Difference, product and quotients of functions

3. Trigonometric Functions ● General Solutions of trigonometric equations of the type  $\sin y = \sin a$ ,  $\cos y = \cos a$  and  $\tan y = \tan a$ .

#### UNIT II: ALGEBRA

1.Principle of Mathematical Induction ●**DELETE FULL CHAPTER**

2.Complex Numbers and Quadratic Equations

● Polar representation of complex numbers.

● Square root of a complex number.

3.Linear Inequalities Nil

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<p>4. Permutations and Combinations ● Derivation of formulae for <math>{}^n P_r</math> and <math>{}^n C_r</math></p> <p>5. Binomial theorem ● <b>DELETE FULL CHAPTER</b></p> <p>6. Sequence and Series ● Formulae for the following special sums <math>\sum k, \sum k^2, \sum k^3</math>.</p> <p><b>UNIT III: COORDINATE GEOMETRY</b></p> <p>1. Straight Lines ● Shifting of origin. ● Equation of family of lines passing through the point of intersection of two lines.</p> <p>2. Conic sections ● a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section.</p> <p>3. Introduction to Three-dimensional Geometry Nil</p> <p><b>UNIT-IV : CALCULUS</b></p> <p>1. Limits and Derivatives Nil</p> <p><b>UNIT-V : MATHEMATICAL REASONING</b></p> <p>1. Mathematical Reasoning ● <b>DELETE FULL CHAPTER</b></p> <p><b>UNIT-VI: STATISTICS AND PROBABILITY</b></p> <p>1. Statistics ● Analysis of frequency distributions with equal means but different variances.</p> <p style="padding-left: 40px;">2. Probability ● Axiomatic (set theoretic) probability, connections with other theories of earlier classes</p>
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### COMPUTER SCIENCE (COMPUTER SCIENCE WITH PYTHON CLASS-XI)

Quarterly Examination	<b>CHAPTER-5,6,7</b>
Half-Yearly Examination	QUARTERLY PLUS 8,9,10 PLUS PRACTICALS
Annual Examination	Full Course and Project / Practical as per CBSE guidelines

### PHYSICAL EDUCATION

Quarterly Examination	Unit 1 - Changing Trends & Career in Physical Education Unit 2 – Olympic Value Education Unit 3 – Physical Fitness, Wellness and Lifestyle Unit 4 – Physical Education & Sports for CWSN
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Half-Yearly Examination	<p><b>Unit 1 to Unit 7 + Practical Exams</b></p> Unit 1 - Changing Trends & Career in Physical Education Unit 2 – Olympic Value Education Unit 3 – Physical Fitness, Wellness and Lifestyle Unit 4 – Physical Education & Sports for CWSN Unit 5 – Yoga Unit 6 – Physical Activity & Leadership Training Unit 7 – Test, Measurement and Evaluation <p><b>PRACTICAL : (Physical Fitness Test), (Motor Fitness Test)</b></p>
Annual Examination	<p><b>Full Course Unit 1 to Unit 10 + Practical</b></p> Unit 1 - Changing Trends & Career in Physical Education Unit 2 to Unit 7 + Practical Exams Unit 2 – Olympic Value Education Unit 3 – Physical Fitness, Wellness and Lifestyle Unit 4 – Physical Education & Sports for CWSN Unit 5 – Yoga Unit 6 – Physical Activity & Leadership Training Unit 7 – Test, Measurement and Evaluation Unit 8 – Fundamentals of Anatomy, Physiology and Kinesiology in sports Unit 9 – Psychology & Sports Unit 10 – Training and Doping in Sports Practical (Motor Fitness Test)

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