DELHI PUBLIC SCHOOL, DHURI

(Under the aegis of DPS Society New Delhi)

(Session 2020-21) /Grade-XI/English/Syllabus Bifurcation

Month	Course Books	Writing/Grammar	Comprehension Skills	Activity
Apr	**Book- Snapshots** 1. The Summer of the beautiful White Horse **Book- Hornbill** 1. The Portrait of a Lady Poem – 1. A Photograph	Notice Writing Gap Filling	Reading	Listening
May	**Book- Snapshots** 2. The Address **Book- Hornbill** 2. We're Not Afraid to Die… Poem-2. The Laburnum Top	Poster Making Gap Filling	Reading	Speaking
June	**Book- Snapshots** 3. Ranga's Marriage **Book- Hornbill** 3. Discovering Tut: the Saga Continues Poem –3. The Voice of the Rain	Re- Ordering of Sentences	Reading	Listening
July	**Book- Snapshots** 4. Albert Einstein at School **Book- Hornbill** 4. Landscape of the Soul	Formal Letter Writing	Notes Making & Summarizing	Speaking
Aug	**Book- Snapshots** 5. Mother's Day **Book- Hornbill** 5. The Ailing Planet: The Green Movement's Role and Revision for **Term-I**	• Speech Writing • Debate Writing	Notes Making & Summarizing	Listening
Sept.	**Term-I**			

Oct.	**Book- Snapshots** **7.** Birth **Book- Hornbill** 6. The Browning Version Poem – 4. Childhood	• Transformation of Sentences	• Reading • Notes Making & Summarizing	Speaking
Nov.	**Book- Hornbill** 7. Silk Road	• Speech Writing • Debate Writing	• Reading • Notes Making & Summarizing	Listening
Dec.	**Revision of Pre- Board 1**			
Jan.	**Revision of Pre- Board 2**			
Feb	**Revision**			
Mar	**Term-II**			

Subject	**PT-1**	**PT-2**	**PT-3**
English	**SEC: A (READING)** • Comprehension Passage **SEC: B (WRITING with GRAMMAR)** • Notice Writing • Poster Making **SEC: D(LITERATURE)** **<u>Book – Snapshots</u>** • Chapter 1 – The Summer of the Beautiful White Horse • **<u>Book-Hornbill</u>** • Chapter 1 – The Portrait of a Lady • Poem 1 – A Photograph	**SEC: A (READING)** • Comprehension Passage **SEC: B (WRITING with GRAMMAR)** • Formal Letter Writing • Gap Filling • Re-Ordering of Sentences **SEC: D (LITERATURE)** **<u>Book – Snapshots</u>** • Chapter - 3. Ranga's Marriage **<u>Book- Hornbill</u>** • 3. Disscovering Tut: the Saga Continues • Poem 3. The Voice of the Rain	**SEC: A (READING)** • Comprehension Passage **SEC: B (WRITING with GRAMMAR)** • Speech Writing • Gap Filling • Re-Ordering of Sentences • Transformation of Sentences **SEC: D (LITERATURE)** **<u>Book – Snapshots</u>** • Poem – 7. Birth **<u>Book- Hornbill</u>** • 6. The Browning Version • Poem – 4. Childhood

Subject	Term-I	Term-II
English	**Section-A (Reading)** • Comprehension Passage • Notes Making & Summarizing **Section-B (Writing Skills with Grammar)** • Notice Writing • Poster Making • Formal Letter Writing • Speech Writing • Debate Writing • Gap Filling • Re-Ordering of Sentences • Transformation of Sentences **Section-C (Literature)** • **Book- Snapshots** Chapter 1 to 5 • **Book-Hornbill** Chapter 1 to 5 Poem 1 and 3	**Section-A (Reading)** • Comprehension Passage • Notes Making & Summarizing **Section-B (Writing Skills with Grammar)** • Notice Writing • Poster Making • Formal Letter Writing • Speech Writing • Debate Writing • Gap Filling • Re-Ordering of Sentences • Transformation of Sentences **Section-C (Literature)** • **Book- Snapshots** Chapter 1 to 5 and 7 • **Book- Hornbill** Chapter 1 to 6 and 8 Poem 1 to 4

DELHI PUBLIC SCHOOL, DHURI
SYLLABUS

CLASS-XI **SUBJECT-CHEMISTRY**

Month	Units	Practical (30 marks)
April	**Unit-I:** Some Basic Concepts of Chemistry.	• Basic Laboratory Techniques.
May	**Unit-II:** Structure of Atom.	• Characterization and Purification of Chemical Substances.
June	**Unit III:** Classification of Elements and Periodicity in Properties.	
July	**Unit IV:** Chemical Bonding and Molecular Structure. **Unit VI:** Thermodynamics. **Unit VII:** Equilibrium.	• Experiments based on pH.
August	**Unit V:** States of Matter.	• Chemical Equilibrium.
September	**TERM-1**	
October	**Unit VIII:** Redox Reactions. **Unit IX:** Hydrogen.	• Quantitative Estimation.
November	**Unit X:** S-Block Elements. **Unit XI:** Some P-Block Elements.	• Qualitative Analysis.
December	**Unit XII:** Organic Chemistry - Some Basic Principles and Techniques.	• Qualitative Analysis.
January	**Unit XIII:** Hydrocarbons.	
February	**Pre-annual examination and revision.**	**Whole Syllabus (70 marks)**
March	**TERM-II**	**Whole Syllabus (70 marks)**

Subject	PT-1	PT-2	PT-3
Chemistry	*Unit-I and II.*	*Unit-IV and V.*	*Unit-X and X1*

Subject	Term-I	Term-II
Chemistry	Unit-I to VII	Whole Syllabus

DELHI PUBLIC SCHOOL, DHURI
SYLLABUS

CLASS- XI **SUBJECT- Physics**

Month	Units	Practical (30 marks)
April	**Unit-I:** Physical World and Measurement.	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 of a given sheet using screw gauge.
May	**Unit II:** Kinematics.	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.
June	**Unit III:** Laws of Motion-I	
July	**Unit III:** Laws of Motion-II **Unit IV:** Work, Energy and Power.	5. 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. 6. To determine the mass of two different objects using a beam balance.
August	**Unit VI:** Gravitation.	
September	**Half yearly examination.**	**April to August syllabus**
October	**Unit V:** Motion of System of Particles and Rigid Body. **Unit VIII:** Thermodynamics	7. To determine Young's modulus of elasticity of the material of a given wire. 8. To determine the surface tension of water by capillary rise method.
November	**Unit– VII**: Properties of Bulk Matter. **Unit– IX:** Behavior of Perfect Gases and Kinetic Theory of Gases	9. To study the relation between frequency and length of a given wire under constant tension using sonometer. 10. To study the relation between the length of a given wire and tension for constant frequency using sonometer.
December	**Unit– X:** Oscillations and Waves	11. To study the relationship between the temperature of a hot body and time by plotting a cooling curve. 12. To find the force constant of a helical spring by plotting a graph between load and extension.
January	**Revision.**	
February	**Pre-annual examination and revision.**	**Whole Syllabus (70 marks)**

March	**Annual Examination**	**Whole Syllabus (70 marks)**

PT1	**PT2**	**PT3**	**Term1**	**Term2**
Unit-I ,II	Unit-III,IV	Unit-V and VII	Unit-I,II,III,IV and VI	Whole syllabus

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SYLLABUS OF BIOLOGY SESSION 2020-21

CLASS XI

Month	Name of the topic	Detailed split up	Practicals
May	**Unit 1 Diversity of Living Organisms**	1. The Living world 2. Biological Classification 3. Plant Kingdom	* Study of the parts of a compound microscope * Study of the specimens/ slides/ models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen
June	**Unit 1 Diversity of Living Organisms**	4. Animal Kingdom	*Study of virtual specimens/ slides/ models and identification with reasons - Amoeba, Hydra, liverfluke, Ascaris, leech, earthworm, prawn, silkworm, honeybee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.
July	**Unit 2 Structural Organisation in Plants And Animals**	5. Morphology of Flowering Plants	*Tissues and diversity in shape and size of animal cells(squamous epithelium, smooth, skeletal and cardiac muscles and mammalian blood smear) through temporary / permanent slides. *Study and description of one locally available common flowering plant from any one Family Solanaceae or Liliaceae including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams).
August	**Unit 2 Structural Organisation in Plants And Animals** **Unit 3 Cell: Structure And Function**	7. Structural Organisation in Animals(Animal tissue) 8. Cell-The Unit of Life 9. Biomolecules	* Mitosis in onion root tip cells and animal cells (grasshopper) from permanent slides *Study of external morphology of cockroach through virtual images/models *Test for the presence of sugar, starch, proteins and fats. Detection in suitable plant and animal materials.
September	Term I		
October	**Unit 3 Cell: Structure And Function**	10. Cell Cycle and Cell Division	*Study of distribution of stomata in the upper and lower surface of leaves.
November	**Unit 4 Plant Physiology**	13. Photosynthesis in Higher Plants	*Study of mitosis in onion root tip cells and animals cells (grasshopper) from

		14. Respiration in Plants	permanent slides.
December	**Unit 4 Plant Physiology** **Unit 5 Human physiology**	14. Respiration in Plants (continued) 15. Plant - Growth and Development	* Separation of plant pigments through paper chromatography
January	**Unit 5 Human physiology**	17. Breathing and Exchange of Gases 18. Body Fluids and Circulation 19. Excretory Products and Their Elimination	*Test for presence of sugar in urine. *Test for presence of albumin in urine
February	**Unit 5 Human physiology**	20. Locomotion and Movement 21. Neural control and Coordination 22. Chemical Coordination and Intergration	*Study of the rate of respiration in flower buds/ leaf tissue and germinating seeds.
March	**Term 2**		

PT 1	**PT2**	**PT3**	**TERM 1**	**TERM 2**
Ch 1,2,3	**Ch4, 5,7**	**Ch 14,15,17,18**	**Ch 1,2,3,4,5,7,8,9**	**Ch1,2,3,4,5,7,8,9,10,13,14,15, 17,18,19,20,21,22.**

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Syllabus Class-XI

Session 2020-21
Mathematics

Month	Chapter	Topic	Activity
Apr.	Ch-1 "SETS"	*Sets and their representations. Empty set. Finite and Infinite sets. Equal sets. Subsets. Subsets of a set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection of sets.*	To represent set theoretic operations using Venn diagrams
May	Ch- 2 "RELATION AND FUNCTION	*Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (R x R only).Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs.*	$n(AXB)=2^{Pq}$ To distinguish between a Relation and function
Jul.	Ch-3 "TRIGONOMETRY"	*Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity sin2x + cos2x = 1, for all x. Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing sin (x±y) and cos (x±y) in terms of sinx, siny, cosx & cosy and their simple applications. Deducing identities*	To verify the relation between the degree measure and the radian measure of a angle. Related with angles.

	Ch – 4 "COMPLEX NUMBER"	*like the following: tan(x ± y) = tan x ± tan y 1 ∓ tan x tan y , cot(x ± y) = cot x cot y ∓ 1 cot y ± cot x sinα ± sinβ = 2sin 1 2 (α ± β)cos 1 2 (α ∓ β) cosα + cosβ = 2cos 1 2 (α + β)cos 1 2 (α − β) cosα − cosβ = −2sin 1 2 (α + β)sin 1 2 (α − β) Identities related to sin2x, cos2x, tan2 x, sin3x, cos3x and tan3x.* *Need for complex numbers, especially√−1, to be motivated by inability to solve some of the quardratic equations. Algebraic properties of complex numbers. Argand plane. Statement of Fundamental Theorem of Algebra, solution of quadratic equations (with real coefficients) in the complex number system.*	Representation of iota.
Aug.	Ch-5 " LINEAR INEQUATIONS"	*Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line. Graphical solution of linear inequalities in two variables. Graphical method of finding a solution of system of linear inequalities in two variables.*	Graphical solutions
Sept.	**Term-I**		
Oct.	Ch-6 "PERMUTATION AND COMBINATION" Ch-7 "SEQUENCE AND SERIES" Ch-12 "STATISTICS"	*Fundamental principle of counting. Factorial n. (n!) Permutations and combinations, formula for nPr and nCr, simple application* *Sequence and Series. Arithmetic Progression (A. P.). Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P., sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M. s.* *Measures of Dispersion: Range, Mean deviation, variance and standard deviation of ungrouped/grouped data.*	
Nov.	Ch-8 'STRAIGHT LINE"	*Brief recall of two dimensional geometry from earlier classes. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form and normal form. General equation of a line. Distance of a point from a line.* *Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea*	*Graphial representation*

	Ch-11 " LIMITS AND DERIVATIVE"	*of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions .Definition of derivative relate it to scope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions*	
Dec.	Ch-9 "CONIC SECTION " Ch – 10 "INTRODUCTION TO THREE DIMENSIONAL GEOMETRY'	*Sections of a cone: circles, ellipse, parabola, hyperbola. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.* *Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula.*	
Jan.	Ch-13 "PROBABILITY"	*Random experiments; outcomes, sample spaces (set representation). Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Probability of an event, probability of 'not', 'and' and 'or' events.*	Show coins,cards,---
Feb	**Revision**		
Mar	**Term-II**		

SUBJECT	*PT 1*	*PT 2*	*PT 3*
MATHS	*CH -1,2*	*CH- 3,4,5*	*CH-6,7,12*

SUBJECT	*TERM 1*	*TERM 2*
MATHS	*Ch-1,2,3,4,5,6.1,6.2*	*ALL CHAPTERS*

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MONTHLY SYLLABUS FOR CLASS – XI (2020-21)
SUBJECT: Physical education

Prescribed Books
1) Physical education sp book

PT - II

MONTH	Introduction of Physical education
July	Ch-2. SPORTS AND NUTRITION
August	Ch-3 yoga and lifestyle
	PT -II
September	TERM- I
October	Ch-4 Physical education and sports CWSN
November	Ch-5. Children and women in sports
December	Ch- 6. Test and measurement in sports
	PT -III
January	Ch-7 Physiology and injuries in sports
Feburary	Revision
	TERM -II

PT-1	Introduction of Physical education sp book
	Ch-1 Planning in sports

PT-II	Ch-2 sports and nutrition Ch-3 yoga and lifestyle
PT-III	Ch-4 Physical education and sports with CWSN Ch-5 children and women in sports Ch-6 Test and measurement in sports Ch-7 Physiology and injuries in sports
TERM-I	Ch-1. Planning in sports Ch-2. Sports and nutrition Ch-3 yoga and lifestyle
TERM-II	Whole Syllabus