SYLLABUS FOR THE YEAR 2020-2021

CLASS : XII (SCIENCE)

ENGLISH CORE			
	Prose/Flamingo :		
	Lesson 1 The last lesson		
	Lesson 2 The Lost Spring.		
	Poetry/Flamingo :		
Quarterly Examination	Poem 1 My Mother at sixty six		
	Poem 2. An Elementary Classroom In a Slum		
	Vistas : Lesson 1 The Third level		
	Reading : Unseen passage		
	Writing : Notice , Letter to the editor/Application for job.		
	Prose/Flamingo :		
	Lesson 1 The last lesson		
	Lesson 2 The Lost Spring		
	Lesson 3 Deep Water		
	Lesson 4 The Rattrap		
	Lesson 5 Indigo		
	Poetry/Flamingo :		
	Poem 1 My Mother at sixty six		
Half-yearly Examination	Poem 2. An Elementary Classroom In a Slum		
	Poem 3. Keeping Quiet		
	Poem 4. A Thing of Beauty		
	Vistas :		
	Lesson 1 The Third level		
	Lesson 4 The Enemy		
	Lesson 5 Should The Wizard hit Mommy		
	Reading : Unseen Passage		
	Writing : Quarterly Course, Invitation and Report/ Article Writing		
Annual Examination	Full Course as per CBSE Syllabus		
DELETED TOPICS – CLASS	XII ENGLISH CORE 2020-21		
READING : NOTE MAKING	AND SUMMARY WRITING		
LITERATURE			
	ID PANCAKES. 2. THE INTERVIEW. 3 GOING PLACES.		
FLAMINGO : POETRY 1 : A			
	2. JOURNEY TO THE END OF THE EARTH. 3. MEMORIES OF CHILDHOOD		
	NG. BUSINESS OR OFFICIAL LETTERS FOR MAKING ENQUIRIES, REGISTERING COMPLAINTS, ASKING		
FOR AND GIVING ORDERS	AND SENDING REPLIES.		
SPEECH AND DEDATE	PHYSICS		
	Chapter 1,2,3,4,5 (as per NCERT Chapter Numbers)		
	DELETED PORTION		
	Chapter-1 Electric charges and fields uniformly charged thin spherical shell (field inside and outside).		
	Chapter-2 NOTHING IS DELETED		
	Chapter-3 Current Electricity Carbon resistors, colour code for carbon resistors; series and parallel		
Quartarly Evening time	combinations of resistors		
Quarterly Examination			
Quarterly Examination	Chapter-4 Moving Charges and Magnetism Cyclotron		
Quarterly Examination	Chapter-4 Moving Charges and Magnetism Cyclotron Chapter-5 Magnetism and Matter magnetic field intensity due to a magnetic dipole (bar magnet)		
Quarterly Examination	Chapter-4 Moving Charges and Magnetism CyclotronChapter-5 Magnetism and Matter magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis, torque on a magnetic dipole (bar magnet) in a uniform		
Quarterly Examination	 Chapter-4 Moving Charges and Magnetism Cyclotron Chapter-5 Magnetism and Matter magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis, torque on a magnetic dipole (bar magnet) in a uniform magnetic field; Para-, dia- and ferro - magnetic substances, with examples. Electromagnets and 		
Quarterly Examination	 Chapter-4 Moving Charges and Magnetism Cyclotron Chapter-5 Magnetism and Matter magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis, torque on a magnetic dipole (bar magnet) in a uniform 		

CLASS : XII (SCIENCE)

Half-Yearly Examination	Chapter 6,7,8,11,12,13 + Quarterly Course (as per NCERT Chapter Numbers)
-------------------------	---

	DELETED PORTION
	Chapter -6 NOTHING IS DELETED FROM THIS CHAPTER
	Chapter-7 Alternating Current power factor, wattless current.
	Chapter 8 Electromagnetic Waves Basic idea of displacement current,
	Chapter-11 Dual Nature of radiation and matter Davisson-Germer experiment
	CHAPTER-12 NOTHING IS DELETED
	Chapter 13 Nuclei Radioactivity, alpha, beta and gamma particles/rays and their properties;
	radioactive decay law, half life and mean life binding energy per nucleon and its variation with mass
	number
	FULL COURSE AS PER CBSE SYLLABUS 2020-21
	DELETED PORTION
	Chapter 9 Ray Optics and Optical Instruments Reflection of light, spherical mirrors, (recapitulation)
	mirror formula , Scattering of light - blue colour of sky and reddish appearance of the sun at sunrise
	and sunset. resolving power of microscope and astronomical telescope, polarisation, plane polarised
Annual Examination	light, Brewster's law, uses of plane polarised light and Polaroids
	Chapter -10 NOTHING IS DELETED
	Chapter 14 Semiconductor Electronics: Materials, Devices and Simple Circuits Zener diode and their
	characteristics, zener diode as a voltage regulator.
	Practicals: No investigatory project and Activity to be demonstrated 8 experiments (clubbed based
	on skills) in place of 12
	CHEMISTRY
	Ch4,5,8,9,10
	Omitted Topics :
	Unit IV : Chemical Kinetics - Concept of collision theory (elementary idea, no mathematical treatment),
	activation energy, Arrhenius equation.
Quarterly Examination	Unit V : Surface Chemistry - emulsion - types of emulsions, catalysis: homogenous and heterogeneous, activity
	and selectivity of solid catalysts;
	enzyme catalysis,
	Unit VIII : d and f Block Elements : Chemical reactivity of lanthanoids, Actinoids –Electronic configuration,
	oxidation states and comparison with lanthanoids. Preparation and properties of $KMnO_4$ and K_2Cr2O_7
	Unit IX : Coordination Compounds - Structure and stereoisomerism, importance of coordination compounds (in qualitative analysis, extraction of metals and biological system).
	Unit X : Haloalkanes and Haloarenes - Uses and environmental effects of -dichloromethane, trichloromethane,
	tetrachloromethane, iodoform, freons, DDT.
	Quarterly + chapter -1,2,3,7,11,12 + practical
	Omitted Topics :
	Unit I : Solid State - Electrical and magnetic properties. Band theory of metals, conductors, semiconductors and
	insulators and n and p type semi conductors.
	Unit II - Solutions : Abnormal molecular mass, Van't Hoff factor
Half-Yearly Examination	Unit III : Electrochemistry - Lead accumulator, fuel cells, corrosion, law of electrolysis (elementary idea), dry
	cell- electrolytic cells and Galvaniccells
	Unit VI : General Principles and Processes of Isolation of Elements – (Entire unit is omitted)
	Unit VII : p-Block Elements - Preparation and properties of Phosphine, Sulphuric Acid: industrial process of
	manufacture, Oxides of Nitrogen (Structure only); Phosphorus - allotropic forms, compounds of
	Phosphorus: Preparation and properties of Halides and Oxo acids (elementary idea only). Unit XI : Alcohols, Phenols and Ethers - uses with special reference to methanol and ethanol.
	Unit XII : Aldehydes, Ketones and Carboxylic Acid (Nothing Deleted)
	,,, ,

SYLLABUS FOR THE YEAR 2020-2021

CLASS : XII (SCIENCE)

	Full Course as per CBSE Syllabus
Pre-Board/annual	Omitted topics : Unit XIII : Amines - Diazonium salts : Preparation, chemical reactions and importance in synthetic organic chemistry. Unit XIV : Biomolecules - Oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen), importance of carbohydrates. Vitamins– classification and functions. Enzymes. Hormones - Elementary idea excluding structure.

		-	nit is omitted)		
Unit XVI : Chemistry in Everyday life (Entire Unit is omitted) BIOLOGY					
	Chanto	r 2, 3, 4, 8			
Quarterly Examination	Chapte Chapte Chapte	r 2 – Sexual Reproduction in Flowering Plai r 3 – Human Reproduction r 4 – Reproductive Health r 8 – Human Health and Disease	nts		
	Quart	erly + chapter-5,6,10 + practical			
	Chapte	napter 5 – Principles of Inheritance and Variation			
Half-Vearly Examination	Chapte	r 6 – Molecular Basis of Inheritance			
Half-Yearly Examination		er 10 – Microbes in Human Welfare			
Annual Examination Full course + practical					
		MENT AREAS THEORY 2020-21			
		HRS MAXIMUM MARKS : 70			
		ENTENCIES			
	-	nstrate knowledge and understanding ation of Knowledge	50% 30%		
		e, Evaluate and Create	20%		
	-		Reasoning Type questions, SA; LA-I, LA-II Source Based /		
DELETED FORTIONS : Unit 6 Chapter 1 Asexual Reproduction Topic Deleted Reproduction, its Features, Modes of Reproduction Deleted Unit 7 Chapter 7 Evolution (Entire Chapter Deleted) Unit 8 Chapter 9 Strategies for Enhancement in Food Production (Entire Chapter Deleted) Unit 10 Chapter 14 Ecosystem (Deleted Completely) Chapter 16 Environmental Issues (Deleted Completely)					
		MATHEMATICS			
Quarterly Examination (Pre Mid-Term) Maximum marks to be converted into 10 marks		Chapter 2. Inverse Trigonometry Function Chapter 3. Matrices Chapter 4. Determinants Chapter 5. Differentiability & Continuity Chapter 6. Application of Derivatives Chapter 10. Vector Algebra Chapter 12. Linear Programming Problems			
Half-Yearly Examination (Mid-Term) Maximum marks to be converted into 10 marks		Chapter 7. Integration Chapter 8. Application of Integration Chapter 9. Differential Equation + Quarterly Course			
Pre-Board Examination (Post-Mid Term) Maximum marks to be converted into 10 marks		Full Course(Except deleted topic)			
Rema	rks : The	Best two performance will be taken a	nd converted into 10 marks		
		SYLLABUS FOR THE YEAR 2	020-2021		

CLASS : XII (SCIENCE)

Maths ActivityThroughout 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		
	TOTAL	10 marks		
	33% internal choices will Full Course	be given		
Annual Exam / Board Exam	Objective / VSA	1×20	20 Marks	
Time Duration : 3 Hours M.M. : 80 Marks	SA Type I	2 × 6	12 Marks	
	SA Type II	4 × 6	24 marks	
	Long Answers	4 × 6	24 marks	
		TOTAL	80 marks	

CHAPTERWISE DELETED SUB-TOPICS MARKED AS ● FOR BOARD EXAMINATION 2021

Unit1: Relations and Functions

- 1. Relations and Functions composite functions, inverse of a function.
- 2. Inverse Trigonometric

Functions : • Graphs of inverse trigonometric functions • Elementary properties of inverse trigonometric functions

Unit2: Algebra

- 1. Matrices
- existence of non-zero matrices whose product is the zero matrix.
- Concept of elementary row and column operations.
- proof of the uniqueness of inverse, if it exists.

2. Determinants ● properties of determinants ● Consistency, inconsistency and number of solutions of system of linear equations by examples,

Unit-III: Calculus

1. Continuity and Differentiability ● Rolle's and Lagrange's Mean Value Theorems (without proof) and their geometric interpretation.

- 2. Applications of Derivatives rate of change of bodies use of derivatives in approximation
- 3. Integrals following type
- $\int \sqrt{ax^2 + bx} + c \, dx$,
- $\int (ax + b) \sqrt{ax^2 + bx} + c \, dx$
- Definite integrals as a limit of a sum
- 4. Applications of the Integrals Area between any of the two above said curves
- 5. Differential Equations formation of differential equation whose general solution is given.
- Solutions of linear differential equation of the type:

 $\frac{dx}{dy}$ +px=q,where p and q are functions of y or constants.

Unit-IV: Vectors and Three- Dimensional Geometry

1. Vectors ● scalar triple product of vectors.

2. Three - dimensional Geometry • Angle between (i) two lines, (ii) two planes, (iii) a line and a plane

Unit-V: Linear Programming

1. Linear Programming ● mathematical formulation of L.P. problems ● (unbounded)

Unit-VI: Probability

1. Probability \bullet mean and variance of random variable. \bullet Binomial probability distribution

SYLLABUS FOR THE YEAR 2020-2021 CLASS : XII (SCIENCE)

COMPUTER SCIENCE (COMPUTER SCIENCE WITH PYTHON CLASS-XII)

	Unit-I: Computational Thinking and Programming-2		
	 Revision of the basics of Python covered in Class XI Functions Using Python Libraries: Create and import Python Libraries 		
	Unit-III: Database Management		
	Data Base Concepts		
Quarterly Examination	 Relational Data Model Structured Query Language Data Types SQL Commands 		
	(Note: SQL commands: Create table, Drop Table, Alter Table, Update-Set, Insert, Delete are deleted)		
	SQL FunctionsJoins		
	 Interface of Python with an SQL Database (Connecting SQL with Python, Creating Database connectivity Applications, Performing Insert, Update, Delete Queries, Display data by using fetchone(), fetchall(), rowcount) 		
	Unit-I: Computational Thinking and Programming-2		
Half-Yearly Examination	 File Handling Text File Binary File CSV File Data Structure-I Linear Lists Data Structure-II Stacks and Queues using Lists 		
	(Note: Recursion and Idea of efficiency are deleted)		
	Rev: Quarterly Course		
	Note: Project / Practical as per CBSE Guidelines		
	Unit-II: Computer Networks		
Pre-Board Examination	 Evolution of Networking Data Communication Terminologies Transmission Media Network Devices Network Topologies Network Protocol Mobile Telecommunication Technologies Network Security Concepts 		
	(Note: Web Scripting Client Side (VB Scripts, Java Scripts, PHP) and Server Side (ASP, JSP, PHP), Web 2.0 (For Social Netoworking), E-Commerce payment transaction using online banking, mobile banking, payment apps and services are deleted)		
	Rev. : Full Course and Project / Practical as per CBSE guidelines		
	PHYSICAL EDUCATION		
Unit Test I	 Unit 1 – Planning in Sports (a) Meaning and objectives of Planning (b) Various Committees and its responsibilities (Pre, during, Post) (c) Tournament – Knock out, League or Round Robin and Combination (d) Procedure to draw fixtures – Knock out and League 		
Quarterly Examination	 Unit II – Sports and Nutrition (a) Balanced Diet (b) Nutritive & Non Nutritive Components of Diet (c) Eating for weight control – A Healhty weight, the pitfalls of dieting, foot intolerance and food myths. 		
	Unit III – Yoga & Life Style		

	(a) Asanas as Preventive Mesures (b) Obesity (c) Diabetes (d) Asthma
	(e) Hypertension (Procedure, Benefits and Contraindications of all Asana Related to these life style diseases.
	Unit IV – Physical Education & Sports for CWSN
	(a) Concept of disability & disorder (b) Types of disability, its causes and nature (Cognitive disability, intellectual disability and physical disability) (c) Types of disorder, its causes and nature (ADHD, SPD, ASD, ODD, OCD) (d) Disability etiquettes (e) Strategies to make physical activities assessable for children with special needs.
	Unit V – Children and Women in Sports
	(a) Motor development & factors affecting it. (b) Exercise Guidelines at different stages of growth and development (c) Common postural deformities – Knock Knee, Flat Foot, Round Shoulders, Lordosis, Kyphosis, Bow Legs and Scoliosis and their corrective measures (d) Sports participation of women in India.
	Unit I to Unit VII + Practical Exam
	(Unit I to Unit V already mention till Quarterly Syllabus)
	Unit VI – Test & Measurement in Sports
	(a) Motor Fitness Test (b) Measurement of Cardio Vascular Fitness (c) Rikli & Jones – Senior Citizen Fitness Test
Half-Vearly Examination	Unit VII – Physiology & Injuries in Sports
Half-Yearly Examination	 (a) Physiological factor determining component of physical fitness (b) Effect of exercise on cardio respiratory system (c) Effect of exercise on muscular system (d) Sports Injuries – Classification (all the soft tissue injuries) (e) Bone and Joint Injuries – Types, Causes, Prevention and Treatment. (f) First-Aid : Aim and Objectives Practical Exam – Motor Fitness Test
	Unit VIII – Biomechanics & Sports
Unit Test II	(a) Meaning and Importance of Biomechanics in Sports (b) Types of Movements (Flexion, Extension, Abduction and Adduction) (c) Newton's Law of Motion and its application in Sports.
	FULL COURSE + PRACTICAL EXAM UNIT I TO UNIT X + Practical Exam : Motor Fitness Test
Annual Examination	[Unit I to Unit VIII already mention the Syllabus Till Unit Test - 2] Unit IX – Psychology & Sports
	(a) Personality : Its definition and Types – Traits & Types (Sheldon & Jung Classification) & Big Five Theory (b) Meaning, concept and types of aggressions in sports.
	Unit X – Training in Sports
	 (a) Strength : Definition Types & Methods of improving strength – Isometric, Isotonic and Isokinetic (b) Endurance – Definition, Types & Methods of develop Endurance – Continuous Training, Interval Training & Fartlet Training. (c) Speed – Definition, Types and Methods to develop speed – Acceleration Run and Pace Run (d) Flexibility – Definition, Types & Methods to improve flexibility. (e) Coordinative Abilities – Definition & types
