

**ARMY PUBLIC SCHOOL CANTT, KANPUR**  
**CLASS XI SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

	<b>CHAPTER NO.</b>	<b>NAME OF CHAPTER</b>	<b>TOPICS TO BE COVERED</b>
<b>CS</b>	<b>1</b>	<b>COMPUTER SYSTEM OVERVIEW</b>	ABOUT COMPUTER, BASIC ORGANIZATION OF COMPUTER,
			INPUT, OUTPUT, CPU, MEMORY, STORAGE UNIT, MOBILE
			SYSTEM ORGANIZATION, AND TYPES OF SOFTWARE IE. SYSTEM, APPLICATION ETC
			QUESTIONS
	<b>2</b>	<b>DATA REPRESENTATION</b>	ABOUT DIGITAL NUMBER SYSTEM, DECIMAL, OCTAL, BINARY,
			HEXADECIMAL AND NUMBER CONVERSION, BINARY ADDITION,
			CHARACTER STRING REPRESENTATION
			QUESTIONS

**SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

	<b>CHAPTER NO.</b>	<b>NAME OF CHAPTER</b>	<b>TOPICS TO BE COVERED</b>
<b>IP</b>	<b>1</b>	<b>BASIC COMPUTER ORGANIZATION</b>	ABOUT COMPUTER, BASIC ORGANIZATION OF COMPUTER,
			INPUT, OUTPUT, CPU, MEMORY, STORAGE UNIT, MOBILE
			SYSTEM ORGANIZATION, AND TYPES OF SOFTWARE IE. SYSTEM, APPLICATION ETC
			QUESTIONS
	<b>2</b>	<b>CYBER SECURITY</b>	ABOUT CYBER SECURITY, SAFELY BROWSING THE WEB
			IDENTITY PROTECTION USING WEB, CONFIDENTIALITY
			OF INFORMATION, CYBER CRIME, APPROPRIATE USE OF
			SOCIAL NETWORKS
		QUESTIONS	

**SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

<b>SUBJECT</b>	<b>SR.NO</b>	<b>CHAPTER NO. AND NAME</b>	<b>TOPICS TO BE COVERED</b>
<b>BIOLOGY</b>	1	<b>1.THE LIVING WORLD</b>	.DIVERSITY IN THE LIVING WORLD-CHARACTERISTICS OF LIVING
			.TAXONOMIC CATEGORIES- NOMENCLATURE AND HIERARCHY
			.TAXONOMICAL AIDS-KEYS,HERBARIUMS, BOTANICAL GARDENS ETC
	2	<b>.2.BIOLOGICAL CLASSIFICATION</b>	.KINGDOM MONERA CHARACTERISTIC FEATURES
			.KINGDOM PROTISTA-DINOFLAGELLATES,PROTOZOANS,SLIME MOULDS
			.KINGDOM FUNGI-DIKARYON,DIFFERENT CLASSES OF FUNGI
			.KINGDOM PLANTAE-CHARACTERISTIC FEATURES
			.KINGDOM ANIMALIA-CHARACTERISTIC FEATURES
			.VIRUSES, VIROIDS AND -CHARACTERISTIC FEATRES .
			. FIVE KINGDOM CLASSIFICATION BY WHITTAKER
			. LICHENS-CHARACTERISTIC FEATURES
	3	<b>.3PLANT KINGDOM</b>	.ARTIFICIAL AND NATURAL CLASSIFICATION SYSTEMS
			- ALGAE-CLASSES AND FEATURES,TYPE OFREPRODUCTION
			BRYOPHYTES-LIFECYCLE OF LIVERWORTS AND MOSSES
			PTERIDOPHYTES-LIFECYCLE OF FERNS AND FEATURES
			GYMNOSPERMS-MYCORRHIZA,CHARACTERISTIC FEATURES OF PINUS
			ANGIOSPERMS-MONOCOTS AND DICOTS
			DOUBLE FERTILISATION AND TRIPLE FUSION
			PLANT LIFE CYCLES AND ALTERNATION OF GENERATIONS
	MEANING OF HAPLONTIC ,DIPLONTIC AND HAPLO -DIPLONTIC		

**SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

<b>SUBJECT</b>	<b>SR.NO.</b>	<b>CHAPTER NO. AND NAME</b>	<b>TOPICS TO BE COVERED</b>
<b>MATHS</b>	<b>1</b>	<b>Chapter 3. Trigonometric Function</b>	<ul style="list-style-type: none"><li>➤ Positive and negative angles.</li><li>➤ Measuring angles in radians and in degrees and conversion from one measure to another.</li><li>➤ Definition of trigonometric functions with the help of unit circle.</li><li>➤ Truth of the identity <math>\sin^2x+\cos^2x=1</math>, for all x. Signs of trigonometric functions.</li><li>➤ Domain and range of trigonometric functions and their graphs.</li><li>➤ Expressing <math>\sin(x \pm y)</math> and <math>\cos(x \pm y)</math> in terms of <math>\sin x</math>, <math>\sin y</math>, <math>\cos x</math> &amp; <math>\cos y</math> and their simple applications.</li><li>➤ Trigonometric Equations and their principal and general solution</li></ul>
	<b>2</b>	<b>ChAPTER4. Principle of Mathematical Induction</b>	<ul style="list-style-type: none"><li>➤ The principle of mathematical induction</li><li>➤ Simple applications Principle of Mathematical Induction .</li><li>➤ Process of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers.</li></ul>

**SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

<b>SUBJECT</b>	<b>SL NO</b>	<b>CHAPTER/POEM/WRITING SKILL TOPICS</b>
<b>ENGLISH</b>	<b>1</b>	The portrait of a lady
	<b>2</b>	The summer of a white beautiful horse
	<b>3</b>	A Photograph ( <b>poem</b> )
	<b>4</b>	<b>Writing skills</b> - Poster/ Notice writing
	<b>5</b>	<b>Grammar</b> - determiners/ integrated exercises /tenses /
	<b>6</b>	<b>Writing skills</b> -Letter writing
	<b>7</b>	Letter to editor
	<b>8</b>	Business letters
	<b>9</b>	Letter of complaint
	<b>10</b>	<b>Writing skills</b> – enquiry letters /asking for information
	<b>11</b>	We are not afraid to die---
	<b>12</b>	Laburnum top (poem)
	<b>13</b>	<b>Reading section</b> - unseen comprehension
	<b>14</b>	The address
	<b>15</b>	Ranga's marriage
	<b>16</b>	Grammar- integrated exercise
	<b>17</b>	Error/omission
	<b>18</b>	Tense and voice
	<b>19</b>	Business letters- placing order and cancelation
	<b>20</b>	Posters

**SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

<b>SUBJECT</b>	<b>SR.NO.</b>	<b>CHAPTER NO. AND NAME</b>	<b>TOPICS TO BE COVERED</b>
<b>GEOGRAPHY</b>	1	<b>1.India-Location</b>	1. The mainland of India
			2. Size
			3. Understanding to select the Standard Meridian
			4 India and its Neighbours
			5 D/B Gulf & Strait
	2	<b>2.Structure and Physiography</b>	1 Geological regions of Physical Feature-Peninsular Block etc
			2 Physiographic division-The Northern Mountains, The Northern Plains
			3 The Peninsular plateau
			4The Indian Desert
			5 Coastal Plains and The Island
	3	<b>3. Geography as a Discipline</b>	1.Geography as an integrating discipline
			2 Physical Geography and Natural Sciences
			3 Geography and Social Sciences
			4 Branches of Geography-Systematic approach & Regional Approach
			5 Physical Geography and its Importance

**SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

<b>SUBJECT</b>	<b>SR. NO.</b>	<b>CHAPTER NO. &amp; NAME</b>	<b>TOPICS TO BE COVERED</b>
<b>PSYCHOLOGY</b>	1	<b>1. What is psychology?</b>	Introduction
			What is Psychology?
			Understanding Mind and Behaviour
			Popular Notions about the Discipline of Psychology
			Understanding Mind and Behaviour
			Evolution of Psychology
			Development of Psychology in India
			Psychology and Other Disciplines
			Psychologists at Work
			Psychology in Everyday Life
	2	<b>2. Methods of Enquiry in Psychology</b>	Goals of Psychological Enquiry
			Some Important Methods in Psychology
			Analysis of Data
			Limitations of Psychological Enquiry
			Ethical Issues
	3	<b>3. The Bases of Human Behaviour</b>	Evolutionary Perspective
			Biological and Cultural Roots
			Biological Basis of Behaviour
			Structure and Functions of Nervous System and
Endocrine System and their Relationship with			
Heredity: Genes and Behaviour			
Cultural Basis : Socio-Cultural Shaping of Behaviour			

--	--	--	--

**SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

<b>SUBJECT</b>	<b>SR.NO.</b>	<b>CHAPTER NO. &amp; NAME</b>	<b>TOPICS TO BE COVERED</b>
<b>ACCOUNTANCY</b>	<b>1</b>	<b>UNIT 1.THEORETICAL FRAME WORK</b>  <b>1. INTRODUCTION TO ACCOUNTING</b>	1. Accounting – Concept, Objectives, advantages and limitation
			2. Types of Accounting information.
			3. Users of Accounting Information and their needs.
			4. Qualitative Characteristics of accounting information.
			5. Role of Accounting in business.
	<b>2</b>	<b>2. BASIC ACCOUNTING TERMS</b>	1. Business Transactions
			2. Capital, Drawings, Liabilities (Non current and current )
			3. Assets (Non current and current); Fixed assets ( Tangible and intangible)
			4. Expenditure (Capital and Revenue ), Expense, Income, Profit, Gain , loss,Purchase, Sales, Goods, Stock
			5. Debtors, Creditors, Voucher, Discount (Trade discount and Cash discount )
<b>3.</b>	<b>3.THEORY BASE OF ACCOUNTING</b>	1. Fundamental accounting assumptions: GAAP : Concept	
		2. Business Entity, Money Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition, Matching, Full Disclosure, Consistency, Conservatism, Materiality and Objectivity.	
		3. System of Accounting, Basis of Accounting : Cash Basis and Accrual Basis.	
		4. Accounting Standards : Applicability in Ind AS	
		5. Goods and Services Tax ( GST ): Characteristics and Objectives.	
<b>BUSINESS STUDIES</b>	<b>1.</b>	<b>NATURE AND PURPOSE OF BUSINESS</b>	1.History of Trade and Commerce in India : indigenous banking system, Rise of Intermediaries, Transport, Trading Communities: Merchant corporations
			2.Major Trade centres, major Imports and Exports, Position of Indian Sub- Continent in the World Economy.

			3.Business : Meaning and Characteristics.
			4.Business, Profession and Employment- Concept.
			5.Objectives of business.
			6.Classification of business activities –Industry and Commerce.
			7.Industry- Types: Primary, Secondary, Tertiary Meaning and subgroups
			8.Commerce – trade ( types- internal,external, wholesale and retail ) and auxiliaries to trade (banking, insurance, transportation, warehousing, communication and advertising )- meaning
			9.Business Risk - Concept
2.	<b>FORMS OF BUSINESS ORGANISATIONS</b>		1. Sole Proprietorship – Concept, merits and limitations.
			2. partnership – Concept, Types, merit and limitation of partnership firm, partnership deed ,Types of partners.
			3. Hindu Undivided Family business : Concept
			4. Cooperative Societies – Concept, merits and limitations
			5. Company –Concept, merits and limitations, types : Private, Public and One Person Company - Concept
			6. Formation of a Company – Stages, important documents to be used, Choice of form of organization.
3.	<b>PUBLIC, PRIVATE AND MULTINATIONAL COMPANY</b>		1. Public Sector and private sector enterprises- Concept.
			2. Forms of Public sector enterprises : Departmental Undertakings, Statutory Corporations and Government Company.
			3. Multinational Company – Feature, Joint ventures, Public Private Partnership - Concept



**SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

<b>SUBJECT</b>	<b>SR.NO</b>	<b>CHAPTER NO: AND NAME</b>	<b>TOPICS TO BE COVERED</b>
ECONOMICS	1.	<b>1. Introduction</b>	Meaning of micro and macro economics
			Positive and normative economics
			Central problem of an economy
			Production Possibility Curve (PPC)
			Opportunity Cost
	2.	<b>2. Consumer's Equilibrium</b>	Meaning of utility- TU, MU and Law of DMU
		<b>(i) Utility Analysis</b>	Conditions of consumer's Equilibrium
		<b>(ii) Indifference Curve</b>	Relationship between Total Utility and Marginal Utility
		<b>Analysis</b>	Indifference curve analysis of consumer's equilibrium The consumer's budget (budget set and budget line), preferences Of the consumers (indifference curve and indifference map) and Conditions of consumer's equilibrium.

**SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

<b>SUBJECT</b>	<b>S.R NO.</b>	<b>CHAPTER NO/NAME</b>	<b>TOPICS TO BE COVERED</b>
HINDI	1	नमक का दारोगा(पाठ)	<ul style="list-style-type: none"><li>• प्रश्नउत्तर (गद्यांश )</li><li>• प्रश्नउत्तर (पाठ )</li><li>• पाठकी व्याख्या</li></ul>
	2	हम तौ एक एक करि जानां (कविता)	<ul style="list-style-type: none"><li>• प्रश्नउत्तर (पद्यांश)</li><li>• प्रश्न उत्तर (कविता)</li></ul>
	3	मेरे तो गिरधर गोपाल,दूसरो न कोई(कविता )	<ul style="list-style-type: none"><li>• प्रश्न उत्तर (काव्य सौंदर्य)</li><li>• कविता की व्याख्या</li></ul>
	4	पगधुंधरू बांधि मीरां नाची(कविता)	"
	5	अभिव्यक्ति और माध्यम	" <ul style="list-style-type: none"><li>• सम्पादकीय रिपोर्ट आलेख एवं फीचर लेखन पर आधारित लघु प्रश्न उत्तर</li></ul>

**SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

SUBJECT	SR. NO.	CHAPTER NO. & NAME	TOPICS TO BE COVERED
POLITICAL SCIENCE	1	1. CONSTITUTION:WHY AND HOW	PREAMBLE
			DEFINITION OF CONSTITUTION
			FUNCTION OF CONSTITUTION
			OBJECTIVE RESOLUTION
			THE AUTHORITY OF A CONSTITUTION
			HOW WAS THE INDIAN CONSTITUTION MADE
			DIFFERENT PROVISIONS ADOPTED FROM OTHER COUNTRIES
	2	2. RIGHTS IN INDIAN CONSTITUTION	BILL OF RIGHTS
			FUNDAMENTAL RIGHTS
			HEART OF THE CONSTITUTION
			REMOVAL OF RIGHT TO PROPERTY
			FUNDAMENTAL DUTIES
			HUMAN RIGHTS COMMISION
			NHRC
	3	3. ELECTION AND REPRESENTATIVE	ELECTION SYSTEM IN INDIA
			FIRST PAST THE POST SYSTEM
			PROPORTIONAL REPRESENTATION SYSTEM
			DIFFERENCE BETWEEN FPTP AND PR SYSTEM
			ELECTORAL REFORMS
ADULT FRANCHISE SYSTEM			

**SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

SUBJECT	SR.NO	CHAPTER NO AND NAME	TOPICS TO BE COVERED
HISTORY	1	THEME 1 FROM THE BEGINNING OF TIME	1. BEGINNING OF HUMAN EXISTENCE
			2. THE STORY OF HUMAN EVOLUTION
			3. TYPES OF HOMO
			4. GLACIATION (ICE AGE)
			5. MODERN HUMAN BEINGS
			6. EARLY HUMANS: WAYS OF OBTAINING FOOD
			7. EARLY HUMANS: FROM TREES, TO CAVES AND OPEN-AIR SITES
			8. EARLY HUMANS: MAKING TOOLS
			9. MODES OF COMMUNICATION: LANGUAGE AND ART
			10. HUNTER -GATHERER SOCIETIES: FROM THE PRESENT TO THE PAST
	2	THEME 2 WRITING AND CITY LIFE	1. MESOPOTAMIA AND ITS GEOGRAPHY
			2. THE SIGNIFICANCE OF URBANISATION
			3. MOVEMENT OF GOODS INTO CITIES
			4. THE DEVELOPMENT OF WRITING
			5. THE SYSTEM OF WRITING
			6. URBANISATION IN SOUTHERN MESOPOTAMIA: TEMPLES AND KINGS
			7. CONSTRUCTION AND MAINTENANCE OF TEMPLES IN MESOPOTAMIA
			8. LIFE IN THE CITY OF UR.
			9. THE LEGACY OF WRITING

**SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

<b>SUBJECT</b>	<b>SR.NO.</b>	<b>CHAPTER NO. &amp; NAME</b>	<b><u>TOPICS TO BE COVERED</u></b>
<b><u>CHEMISTRY</u></b>	1)	<b>SOME BASIC CONCEPTS OF CHEMISTRY</b>	Laws of chemical combination
			Atoms,molecules and dalton's atomic theory,mole concepts
			Percentage composition,empirical and molecular formula
			Stoichiometry and stoichiometric calculations
			Ncert excercise questions
	2)	<b>STRUCTURE OF ATOM</b>	Discovery of fundamental particals
			Developments leading to quantum model of atom
			Energies of orbitals
			Electronic configuration of atoms
			Some additional information
			Ncert excercise questions
	3)	<b>CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES</b>	Atomic and periodic properties of elements
			Ionization enthalpy
			Electron gain enthalpy
			Electronegativity
			Periodic trends in chemical properties
			Periodic trends and chemical reactivity
			Ncert excercise questions
	4)	<b>CHEMICAL BONDING</b>	General characteristics of ionic ,covalent compounds
			Hybridization
			Geometry or shapes of molecules
			Molecular orbital theory
			Hydrogen bonding
			Some higher thinking order questions
Ncert excercise questions			

**SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

SUBJECT	S.No.	Chapter Number Chapter Name	Topic
<b>PHYSICAL EDUCATION</b>	1	<b>1-CHANGING TRENDS &amp; CAREER IN PHYSICAL EDUCATION</b>	Meaning & Definition of Physical Education
			Aims & Objectives of Physical Education
			Career Options in Physical Education
			Competition in Various Sports at National and International level
			Khelo India Program
	2	<b>2-Olympic Value Education</b>	Olympics , Paralympics and Special Olympics
			Olympic Symbols, Ideals , Objectives & Values of Olympism
			International Olympic Committee
			Indian Olympic Association
	3	<b>3-PHYSICAL FITNESS , WELLNESS &amp; LIFESTYLE</b>	Meaning and importance of Physical Fitness , Wellness & Lifestyle
			Components of Physical Fitness and Wellness
			Components of Health related Fitness

**SYLLABUS TO BE COVERED IN APRIL/MAY SESSION 2020-21**

SUBJECT	SR. NO.	CHAPTER NO. & NAME	TOPICS TO BE COVERED
PHYSICS	1	UNITS AND MEASUREMENTS	Units of measurement, systems of units, si unit
			Fundamental and derived units.
			Length, mass and time
			Dimensions of physical quantities
			Dimensional analysis and its application.
			Errors in measurement
			Numerical
	2	KINEMATICS (MOTION IN A STRAIGHT LINE)	Frame of reference, motion in straight line, position-time graph
			Speed and velocity, elementary concepts of differentiation and integration for describing
		(MOTION IN PLANE)	Motion, uniform and non-uniform motion, average speed and instantaneous velocity
			Uniformly accelerated motion,
			Scalar and vector quantities, position and displacement vector, application, multiplication
			Of vector by a real number, addition and subtraction of vectors, relative velocity
Motion in plane (projectile motion), uniform circular motion.			