

SOMERVILLE SCHOOL NOIDA

SYLLABUS FOR FINAL TERM

CLASS XI (2020 – 2021)

ENGLISH CORE (REVISED CURRICULUM)

S.NO	CHAPTERS/TOPICS
	<u>READING (SECTION-A)</u>
1	UNSEEN PASSAGES/POETRY FOR COMPREHENSION
2	NOTE MAKING
	<u>WRITING SKILLS(SECTION -B)</u>
	SHORT WRITING SKILL
1	NOTICE WRITING
2	DESIGNING A POSTER
3	DISPLAY ADVERTISEMENT
	LETTER WRITING
1	BUSINESS /OFFICIAL LETTERS: (A) ENQUIRIES AND RESPONSES (B) COMPLAINTS (C) PLACING ORDERS
2	LETTERS TO SCHOOL OR COLLEGE AUTHORITIES
	LONG COMPOSITIONS
1	SPEECH
2	DEBATE
	<u>GRAMMAR</u>
1	DETERMINERS
2	TENSES
	<u>LITERATURE(SECTION-C)</u>
	HORNBILL
	PROSE
1	THE PORTRAIT OF A LADY
2	WE'RE NOT AFRAID TO DIE...IF WE CAN ALL BE TOGETHER
3	DISCOVERING TUT: THE SAGA CONTINUES
4	LANDSCAPE OF THE SOUL
5	THE AILING PLANET
6	THE BROWNING VERSION
7	SILK ROAD
	POETRY
1	A PHOTOGRAPH
2	THE LABURNUM TOP
3	THE VOICE OF RAIN
4	CHILDHOOD
	SNAPSHOTS

1	THE SUMMER OF THE BEAUTIFUL HORSE
2	THE ADDRESS
3	RANGA'S MARRIAGE
4	ALBERT EINSTEIN AT SCHOOL
5	MOTHER'S DAY
6	BIRTH

MATHEMATICS

S.NO	CHAPTERS
1	CH1. SETS
2	CH 2. RELATIONS AND FUNCTIONS
3	CH 3. TRIGONOMETRIC FUNCTIONS
4	CH 5. COMPLEX NUMBERS AND QUADRATIC EQUATIONS
5	CH 6. LINER INEQUALITIES
6	CH 7. PERMUTATIONS AND COMBINATIONS
7	CH 9. SEQUENCES AND SERIES
8	CH10. STRAIGHT LINES
9	CH11. CONIC SECTIONS
10	CH12. INTRODUCTION TO THREE DIMENSIONAL GEOMETRY
11	CH13. LIMITS AND DERIVATIVES
12	CH15. STATISTICS
13	CH16. PROBABILITY

PHYSICS

UNITS	CHAPTERS
Unit-I	PHYSICAL WORLD AND MEASUREMENT
	Chapter-1: Physical World
	Chapter-2: Units and Measurements
Unit-II	KINEMATICS
	Chapter-3: Motion in a Straight Line
	Chapter-4: Motion in a Plane
Unit-III	LAWS OF MOTION

	Chapter–5: Laws of Motion
Unit–IV	WORK, ENERGY AND POWER
	Chapter–6: Work, Energy and Power
Unit–V	MOTION OF SYSTEM OF PARTICLES AND RIGID BODY
	Chapter–7: System of Particles and Rotational Motion
Unit–VI	GRAVITATION
	Chapter–8: Gravitation
Unit–VII	PROPERTIES OF BULK MATTER
	Chapter–9: Mechanical Properties of Solids
	Chapter–10: Mechanical Properties of Fluids
	Chapter–11: Thermal Properties of Matter
Unit–VIII	THERMODYNAMICS
	Chapter–12: Thermodynamics
Unit–IX	BEHAVIOUR OF PERFECT GASES AND KINETIC THEORY OF GASES
	Chapter–13: Kinetic Theory
Unit–X	OSCILLATIONS AND WAVES
	Chapter–14: Oscillations
	Chapter–15: Waves

CHEMISTRY

S.NO	CHAPTERS
1	SOME BASIC CONCEPTS OF CHEMISTRY
2	STRUCTURE OF ATOM
3	CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES
4	CHEMICAL BONDING AND MOLECULAR STRUCTURE
5	STATES OF MATTER
6	CHEMICAL THERMODYNAMICS
7	EQUILIBRIUM
8	REDOX REACTIONS
9	HYDROGEN
10	S-BLOCK ELEMENTS
11	P- BLOCK ELEMENTS
12	ORGANIC CHEMISTRY : SOME BASIC PRINCIPLES
13	HYDROCARBONS

BIOLOGY

S.NO	CHAPTERS
1	THE LIVING WORLD
2	BIOLOGICAL CLASSIFICATION
3	PLANT KINGDOM
4	ANIMAL KINGDOM
5	MORPHOLOGY OF FLOWERING PLANTS
6	STRUCTURAL ORGANIZATION IN ANIMALS
7	CELL - THE UNIT OF LIFE
8	BIOMOLECULES
9	CELL CYCLE AND CELL DIVISION
10	PHOTOSYNTHESIS IN HIGHER PLANTS
11	RESPIRATION IN PLANTS
12	PLANT - GROWTH AND DEVELOPMENT
13	BREATHING AND EXCHANGE OF GASES
14	BODY FLUIDS AND CIRCULATION
15	EXCRETORY PRODUCTS AND THEIR ELIMINATION
16	LOCOMOTION AND MOVEMENT
17	NEURAL CONTROL AND COORDINATION
18	CHEMICAL COORDINATION AND INTEGRATION

ACCOUNTANCY

CHAPTER NO.	NAME OF THE CHAPTER
1	INTRODUCTION TO ACCOUNTING
2	BASIC ACCOUNTING TERMS
3	THEORY BASE OF ACCOUNTING,ACCOUNTING STANDARDS & INDIAN ACCOUNTING STANDARDS
4	BASES OF ACCOUNTING
5	ACCOUNTING EQUATION
6	ACCOUNTING PROCEDURES-RULES OF DEBIT & CREDIT
7	ORIGIN OF TRANSACTIONS-SOURCE DOCUMENTS
8	JOURNAL
9	LEDGER
10	SPECIAL PURPOSE BOOKS I-CASH BOOK
11	SPECIAL PURPOSE BOOKS II-OTHER BOOKS
12	BANK RECONCILIATION STATEMENT

13	TRIAL BALANCE
14	DEPRECIATION
15	PROVISIONS & RESERVES
16	ACCOUNTING FOR BILLS OF EXCHANGE
17	RECTIFICATION OF ERRORS
18	FINANCIAL STATEMENTS OF SOLE PROPRIETORSHIP
19	ADJUSTMENTS IN PREPARATION OF FINANCIAL STATEMENTS

BUSINESS STUDIES

S.NO	CHAPTERS
1	NATURE AND PURPOSE OF BUSINESS
2	FORMS OF BUSINESS ORGANISATIONS
3	PUBLIC, PRIVATE AND GLOBAL ENTERPRISES
4	BUSINESS SERVICES
5	EMERGING MODES OF BUSINESS
6	SOCIAL RESPONSIBILITY OF BUSINESS AND BUSINESS ETHICS
7	SOURCES OF BUSINESS FINANCE
8	SMALL BUSINESS
9	INTERNAL TRADE
10	INTERNATIONAL BUSINESS

ECONOMICS

Part A: Statistics for Economics	CHAPTERS/UNITS
1	UNIT 1: INTRODUCTION
2	UNIT 2: COLLECTION, ORGANIZATION AND PRESENTATION OF DATA
3	UNIT 3: STATISTICAL TOOLS AND INTERPRETATION <ul style="list-style-type: none"> • Measures of Central Tendency • Positional average and Partition values • Measures of Dispersion • Correlation • Introduction to Index Numbers

Part B: Introductory Microeconomics	CHAPTERS/UNITS
1	UNIT 4: INTRODUCTION
2	UNIT 5: CONSUMER'S EQUILIBRIUM AND DEMAND <ul style="list-style-type: none"> • Consumer's equilibrium • Demand and Price elasticity of demand
3	UNIT 6: PRODUCER BEHAVIOUR AND SUPPLY <ul style="list-style-type: none"> • Production Function • Cost • Revenue • Supply and Price elasticity of supply
4	UNIT 7: FORMS OF MARKET AND PRICE DETERMINATION UNDER PERFECT COMPETITION WITH SIMPLE APPLICATIONS. <ul style="list-style-type: none"> • Perfect competition • Simple Applications of Demand and Supply

HISTORY

S.NO	CHAPTERS
1	WRITING AND CITY LIFE
2	AN EMPIRE ACROSS THREE CONTINENTS
3	THE CENTRAL ISLAMIC LANDS
4	THE THREE ORDERS
5	CHANGING CULTURAL TRADITIONS
6	THE INDUSTRIAL REVOLUTION
7	DISPLACING INDIGENOUS PEOPLES
8	PATHS TO MODERNISATION

POLITICAL SCIENCE**PAPER-1: INDIAN CONSTITUTION AT WORK**

UNIT NO.	UNITS	OLD CONTENT	NEW UNITS	NEW CONTENTS	DELETED PORTION
1.	CONSTITUTION WHY AND HOW? PHILOSOPHY OF THE CONSTITUTION	CONSTITUTION: WHY AND HOW? THE MAKING OF THE CONSTITUTION, THE CONSTITUENT ASSEMBLY, PROCEDURAL ACHIEVEMENTS AND PHILOSOPHY OF THE CONSTITUTION.	CONSTITUTION	CONSTITUTION : THE PHILOSOPHY AND MAKING OF THE CONSTITUTION , FUNDAMENTAL RIGHTS AND DUTIES, DIRECTIVE PRINCIPLES OF STATE POLICY CONSTITUTIONAL AMENDMENTS AS OF 2019, THERE HAVE BEEN TOTAL 103 AMENDMENTS OF THE CONSTITUTION OF INDIA.	-
2.	RIGHTS IN THE INDIAN CONSTITUTION	FUNDAMENTAL RIGHTS AND DIRECTIVE PRINCIPLES OF STATE POLICY	MERGED WITH UNIT 1.		-
3.	ELECTION AND REPRESENTATION	ELECTION SYSTEM IN INDIA AND ELECTORAL REFORMS	ELECTION AND REPRESENTATION	ELECTIONS AND DEMOCRACY, ELECTION SYSTEM IN INDIA, ELECTORAL REFORMS	-

				USE OF ELECTRONIC VOTING MACHINE, VOTER VARIABLE PAPER AUDIT TRAIL, NOTA. RESTRICTIONS ON EXIT POLL, CEILING ON ELECTION EXPENDITURE (RS. 50-70 LAKHS FOR THE LOK SABHA ELECTIONS AND RS. 20-28 LAKHS FOR THE ASSEMBLY ELECTIONS) AND THE USE OF ELECTORAL BONDS AND ELECTION FUNDING.	
4.	THE LEGISLATURE	WHY DO WE NEED A PARLIAMENT? TWO HOUSES OF PARLIAMENT, THEIR FUNCTIONS. PARLIAMENTARY COMMITTEES.	THE LEGISLATURE	WHY DO WE NEED A PARLIAMENT? TWO HOUSES OF PARLIAMENT, THEIR FUNCTIONS. PARLIAMENTARY COMMITTEES. PARLIAMENTARY OFFICIALS: SPEAKER, DEPUTY SPEAKER, PARLIAMENTARY SECRETARY	-
5.	THE EXECUTIVE	WHAT IS AN EXECUTIVE? DIFFERENT	THE EXECUTIVE	PARLIAMENTARY EXECUTIVE IN INDIA, THE	-

		<p>TYPES OF EXECUTIVE. PARLIAMENTARY EXECUTIVE IN INDIA. PRIME MINISTER AND COUNCIL OF MINISTERS. PERMANENT EXECUTIVE: BUREAUCRACY</p>		<p>PRESIDENT, THE PRIME MINISTER AND COUNCIL OF MINISTERS. PERMANENT EXECUTIVE: BUREAUCRACY</p>	
6.	THE JUDICIARY	<p>WHY DO WE NEED AN INDEPENDENT JUDICIARY? STRUCTURE OF THE JUDICIARY. JUDICIAL ACTIVISM, JUDICIARY AND RIGHTS, JUDICIARY AND PARLIAMENT.</p>	THE JUDICIARY	<p>WHY DO WE NEED AN INDEPENDENT JUDICIARY? STRUCTURE OF THE JUDICIARY. JUDICIAL ACTIVISM, JUDICIARY AND RIGHTS, JUDICIARY AND PARLIAMENT JUDICIAL OVER REACH (ARTICLE 142)</p>	-
7.	FEDERALISM	<p>WHAT IS FEDERALISM? FEDERALISM IN THE INDIAN CONSTITUTION, FEDERALISM WITH A STRONG CENTRAL GOVERNMENT , CONFLICTS IN INDIAN FEDERAL SYSTEM, SPECIAL PROVISIONS.</p>	-	-	COMPLETELY DELETED
8.	LOCAL GOVERNMENTS	<p>WHY DO WE NEED LOCAL GOVERNMENT</p>	LOCAL GOVERNMENTS	73 rd AND 74 th	WHY DO WE NEED LOCAL

		S? GROWTH OF LOCAL GOVERNMENT S IN INDIA 73 rd AND 74 th AMENDMENT S		AMENDMENTS WORKING AND CHALLENGES OF LOCAL GOVERNMENT S.	GOVERNMENT S? GROWTH OF LOCAL GOVERNMENT S IN INDIA
9.	CONSTITUTION AS A LIVING DOCUMENT		MERGED WITH UNIT 1.		

PAPER -2. POLITICAL THEORY

UNIT NO.	UNITS	OLD CONTENTS	NEW UNITS	NEW CONTENTS	DELETED PORTION
1.	POLITICAL THEORY: AN INTRODUCTION	WHAT IS POLITICS? WHAT DO WE STUDY IN POLITICAL THEORY? PUTTING POLITICAL THEORY IN PRACTICE. WHY SHOULD WE STUDY POLITICAL THEORY?	POLITICAL THEORY: AN INTRODUCTION	WHAT IS POLITICS? POLITICS VS POLITICAL THEORY, IMPORTANCE OF POLITICAL THEORY.	-
2.	FREEDOM	THE IDEAL OF FREEDOM. WHAT IS FREEDOM? WHY DO WE NEED CONSTRAINTS? HARM PRINCIPLE.	LIBERTY	LIBERTY VS FREEDOM, NEGATIVE AND POSITIVE LIBERTY	-
3.	EQUALITY	SIGNIFICANCE OF EQUALITY.WHAT IS EQUALITY? VARIOUS DIMENSIONS OF EQUALITY. HOW CAN WE PROMOTE EQUALITY?	EQUALITY	SIGNIFICANCE OF EQUALITY.WHAT IS EQUALITY? VARIOUS DIMENSIONS OF EQUALITY. HOW CAN WE PROMOTE EQUALITY?	-
4.	SOCIAL JUSTICE	WHAT IS JUSTICE? JUST DISTRIBUTION. JUSTICE AS FAIRNESS. PURSUING	JUSTICE	WHAT IS JUSTICE? DIFFERENT DIMENSIONS OF JUSTICE. DISTRIBUTIVE	-

		SOCIAL JUSTICE.		JUSTICE.	
5.	RIGHTS	WHAT ARE RIGHTS? WHERE DO RIGHTS COME FROM? LEGAL RIGHTS AND THE STATE. KINDS OF RIGHTS. RIGHTS AND RESPONSIBILITIES.	RIGHTS	WHAT ARE RIGHTS? HISTORY OF RIGHTS. KINDS OF RIGHTS. HUMAN RIGHTS.	-
6.	CITIZENSHIP	WHAT IS CITIZENSHIP? CITIZEN AND NATION. UNIVERSAL CITIZENSHIP. GLOBAL CITIZENSHIP.			COMPLETELY DELETED
7.	NATIONALISM	NATIONS AND NATIONALISM, NATIONAL SELF DETERMINATION, NATIONALISM AND PLURALISM			COMPLETELY DELETED
8.	SECULARISM	WHAT IS SECULARISM? WHAT IS SECULAR STATE? THE WESTERN AND INDIAN APPROACHES TO SECULARISM CRITICISMS AND RATIONALE OF INDIAN SECULARISM.			COMPLETELY DELETED
9.	DEVELOPMENT	WHAT IS DEVELOPMENT? DOMINANT DEVELOPMENT MODEL AND ALTERNATIVE CONCEPTIONS OF DEVELOPMENT.	DEVELOPMENT	GROWTH VS DEVELOPMENT, DIFFERENT MODELS OF DEVELOPMENT: WELFARE STATE MODEL, MARKET MODEL, DEVELOPMENTAL MODEL.	-

GEOGRAPHY

BOOK-1 Fundamentals of Physical Geography	CHAPTERS
1	LESSON 1: GEOGRAPHY AS A DISCIPLINE
2	LESSON3: INTERIOR OF THE EARTH
3	LESSON4: DISTRIBUTION OF OCEANS AND CONTINENTS
4	LESSON 5: MINERALS AND ROCKS
5	LESSON 6: GEOMORPHIC PROCESSES
6	LESSON 8: COMPOSITION AND STRUCTURE OF ATMOSPHERE
7	LESSON 9: SOLAR RADIATION,HEAT BALANCE,AND TEMPERATURE.
8	LESSON 11: WATER IN THE ATMOSPHERE.
9	LESSON 14: MOVEMENTS OF OCEAN WATER.
10	LESSON 15: LIFE ON THE EARTH
11	LESSON 16: BIODIVERSITY AND CONSERVATION
	(rest are deleted from the syllabus)
BOOK 2- India-Physical Environment	CHAPTERS
1	LESSON 1- INDIA-LOCATION
2	LESSON 3- DRAINAGE
3	LESSON 5- NATURAL VEGETATION
4	LESSON 6- SOILS
	(rest are deleted from the syllabus)

PRACTICAL**SYLLABUS GIVEN TO STUDENTS**

*** (Maps and Diagrams of concerned chapters as given in class of both the books)**

COMPUTER SCIENCE

(PYTHON)	I Computer Systems and Organisation – Chapter 1,2 II Computational Thinking and Programming – Chapter-3 To 10 III Society, Law and Ethics- Chapter-13
	Topics deleted Unit I: Computer Systems and Organisation <ul style="list-style-type: none">● Encoding Schemes : UTF8, UTF32● Concept of cloud computing and cloud services (SaaS,IaaS,PaaS), cloud (public/private), Blockchain Unit II: Computational Thinking and Programming - 1 <p>Decomposition – concept, need for decomposing a problem, examples of problem solving using Decomposition.</p> <ul style="list-style-type: none">● Sorting algorithm: bubble and insertion sort; count the number of operations while sorting.

PSYCHOLOGY

S.NO	CHAPTERS	DELETED PORTIONS
1.	What is Psychology?	_____
2.	Methods of Enquiry in Psychology	_____
3.	The Bases of Human Behaviour	_____
4.	Human Development	_____
5.	Sensory, Attentional and Perceptual Processes	(Visual Sensation – Pages 87 to 91 Auditory Sensation – Pages 91 to 93)
6.	Learning	Learning (Concept Learning – Page 120 Transfer of Learning – Page 122 Learning Styles -page 125 Application of Learning Principles – Pages 127, 128)

7.	Human Memory	(Knowledge Representation & Organization in Memory – Page 139 to 142)
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PHYSICAL EDUCATION

S.NO	UNITS
1	CHANGING TRENDS & CAREER IN PHYSICAL EDUCATION.
2	OLYMPIC VALUE EDUCATION
3	PHYSICAL FITNESS, WELLNESS & LIFESTYLE
4	PHYSICAL EDUCATION & SPORTS FOR CWSN (CHILDREN WITH SPECIAL NEEDS-DIVYANG)
5	YOGA
6	PHYSICAL ACTIVITY & LEADERSHIP TRAINING
7	TEST, MEASUREMENT & EVALUATION
8	FUNDAMENTAL OF ANATOMY, PHYSIOLOGY & KINESIOLOGY IN SPORTS
9	PSYCHOLOGY & SPORTS
10	TRAINING AND DOPING IN SPORTS

COMMERCIAL ARTS (052)

1. A. Pre-Historic Rock-Paintings Introduction
1) Period and Location
2) Study and appreciation of following Pre-historic paintings:
i. Wizard's Dance, Bhimbetka
B. Introduction
1) Period and Location.
2) Extension: In about 1500 miles.
i. Harappa & Mohenjo-Daro (Now in Pakistan)
ii. Ropar, Lothal, Rangpur, Alamgirpur, Kali Bangan, Banawali and Dholavira (in India)
2. Study and appreciation of following: Sculptures and Terra cottas:
i. Dancing girl (Mohenjo-Daro)
Bronze, 10.5 x 5 x 2.5 cm.
Circa 2500 B.C.
(Collection: National Museum, New Delhi).
ii. Male Torso (Harappa)
Red lime Stone, 9.2 x 5.8 x 3 cms.

Circa 2500 B.C.
(Collection: National Museum, New Delhi)
iii. Mother Goddess (Mohenjo-Daro) terracotta, 22 x 8 x 5 c Circa 2500 B.C. (Collection: National Museum, New Delhi).
3 Study and appreciation of following Seal:
i. Bull (Mohenjo-Daro)
Stone (Steatite), 2.5 x 2.5 x 1.4 cm. Circa 2500 B.C.
(Collection: National Museum, New Delhi).
Decoration on earthen wares: Painted earthen-ware (Jar)
Mohenjo-Daro (Collection: National Museum, New Delhi).
Unit 2 Buddhist, Jain and Hindu Art
1. General Introduction to Art during Mauryan, Shunga, Kushana (Gandhara and Mathura styles) and Gupta period:
2. Study and appreciation of following Sculptures:
i. Lion Capital from Sarnath (Mauryan period) Polished sandstone, Circa 3rd Century B.C. (Collection: Sarnath Museum, U.P.)
ii. Chauri Bearer from Didar Ganj (Yakshi) (Mauryan period) Polished sandstone Circa 3rd Century B.C.(Collection: Patna Museum, Bihar)
iii. Seated Buddha from Katra Mound, Mathura-(Kushan Period-Mathura Style) Red-spotted Sand Stone, Circa 3rd Century AD. (Collection: Govt. Museum, Mathura)
iv. Jain Tirathankara (Gupta period) Stone Circa 5th Century A.D. (Collection: State Museum, Lucknow U.P.)
3. Introduction to Ajanta Location
Period, No of caves, Chaitya and Vihara, paintings and sculptures, subject matter and technique etc.
Unit 3 Temple Sculpture, Bronzes and artistic aspects of Indo-Islamic Architecture
(A) Artistic aspects of Indian Temple sculpture (6th Century A.D. to 13th Century A.D.)
1) Introduction to Temple Sculpture (6th Century A.D. to 13th Century A.D.)
2) Study and appreciation of following Temple-Sculptures:
i. Descent of Ganga (Pallava period, Mahabalipuram, Tamil Nadu), granite rock Circa 7th Century A.D.
ii. Trimuti (Elephanta, Maharashtra) Stone Circa 9th Century A.D.
iii. Lakshmi Narayana (Kandariya Mahadev Temple) (Chandela period, Khajuraho, Madhya Pradesh) Stone Circa 10th Century A.D.
iv. Cymbal Player, Sun Temple (Ganga Dynasty, Konark, Orrisa) Stone Circa 13th Century A.D.
v. Mother and Child (Vimal-Shah Temple, Solanki Dynasty, Dilwara, Mount Abu; Rajasthan) white marble, Circa 13th Century A.D.
(B) Bronzes :

1. Introduction to Indian Bronzes.
2. Method of casting (solid and hollow)
3. Study and appreciation of following South Indian Bronze:
i. Nataraj (Chola period Thanjavur Distt.,Tamil Nadu) 12th
Century A.D.
(Collection : National Museum, New Delhi) 8 Page
(C) Artistic aspects of the indo-Islamic architecture:
1. Introduction
2. Study and appreciation of following architecture:
i. Qutub Minar
ii. Gol Gumbaj