

CARMEL CONVENT SR. SEC. SCHOOL
SYLLABUS FOR CLASS XII
SESSION : 2026-27

Biology

MONTH	Distribution of chapters.
APRIL	1) Sexual reproduction in flowering plants. 2) Human Reproduction
JULY	3) Reproductive Health 4) Principles of inheritance and variations 5) Molecular basis of inheritance
AUGUST	6) Evolution 7) Biotechnology principles and processes 8) Applications of biotechnology
SEPTEMBER	9) Human health and diseases 10) Microbes in Human Welfare
OCTOBER	11) Organism and Population 12) Ecosystem
NOVEMBER	13) Biodiversity and its conservation Practicals
DECEMBER	Preboards
JANUARY	Preboards

Chemistry

MONTH	TOPIC COVERED
APRIL-JUNE	-Solution - Electrochemistry
JULY	Chemical Kinetics
AUGUST	The d and f Block Elements / Co-ordination Comp
SEPTEMBER	Haloalkanes / Haloarenes
OCTOBER	-Alcohols, Phenols and Ethers/ Aldehydes, Ketones and Carboxylic acid.
NOVEMBER	Amines and Biomolecules

PHYSICS

MONTH	TOPICS
APRIL	Electrostatics • Electric Charges and Fields • Electrostatic Potential and Capacitance
JULY	Current Electricity
AUGUST	Magnetic Effects of Current and Magnetism • Moving Charges and Magnetism • Magnetism and Matter

SEPTEMBER	Electromagnetic Induction and Alternating Currents • Electromagnetic Induction • Alternating Current • Electromagnetic Waves
OCTOBER	Optics • Ray Optics and Optical Instruments • Wave Optics
NOVEMBER	Dual Nature of Radiation and Matter Atoms and Nuclei • Atoms • Nuclei
DECEMBER	Electronic Devices Semiconductor Electronics: Materials, Devices and Simple Circuits

MATHEMATICS

MONTH	Chapter no.	Chapter Name
APRIL	1	Relations and Functions
	2	Inverse Trigonometric Functions
	3	Matrices
JUNE-JULY	4	Determinants
	5	Continuity and Differentiability
AUGUST	6	Applications of Derivatives
SEPTEMBER	13	Probability
	12	Linear Programming Problem
	7	Integration
OCTOBER	8	Applications of Integrals
	9	Differential Equations
NOVEMBER	10	Vector Algebra
	11	Three Dimensional Geometry

ACCOUNTANCY

MONTH	TOPIC COVERED
APRIL-MAY	PART-A Unit -2 Accounting for Partnership Firm Fundamentals Goodwill: Nature and Valuation
JULY	PART-A Unit -2 Accounting for Partnership Firm Goodwill: Nature and Valuation (contd) Change in Profit-sharing ratio among the existing partners Admission of a Partner
AUGUST	PART -A Unit-2 Accounting for Partnership Firm Retirement of a Partner, Death of a Partner PART-B Unit- 4 Financial Statements of a company Financial Statement Analysis
SEPTEMBER	PART –B : Accounting Ratios PART-A : Dissolution of a Partnership Firm

OCTOBER	PART-A Unit-3 Accounting for Companies Accounting for Share capital PART-A : Accounting for Debentures
NOVEMBER	PART-B Unit-5 Cash Flow Statement Project work
DECEMBER	Revision

Economics

MONTH	(MACRO ECONOMICS AND INDIAN ECONOMIC DEVELOPMENT)
APRIL	Chapter 1: Introduction to Macro economics Chapter 2: National Income accounting. Indian economic development Chapter 1: Development experience (1947-90)and economy 1991.
JUNE/JULY	Chapter 2: National Income accounting contd. Chapter 3: Money and Banking (Indian economic development) Chapter 1 to be contd.
AUGUST	Chapter 4: Determination of Income and employment (Indian economic development) Chapter 2:Current challenges facing Indian economy.
SEPTEMBER	Tests
OCTOBER	Chapter 5: Government Budget and economy (Indian economic development) Chapter 3: Development experience of India... A comparison with neighbours.
NOVEMBER	Chapter 6: Balance of payments (Indian economic development) Chapter 3 : Development experience of India.....A comparison with neighbours .(Contd)
DECEMBER	1 st pre board
JANUARY	2 nd pre board

POLITICAL SCIENCE

MONTH	CHAPTER/ UNIT
MARCH	CHAPTER 2 – The End of Bipolarity
APRIL	CHAPTER 4-Contemporary Centres of Power
JULY	CHAPTER 5 -Contemporary South Asia CHAPTER 6 – International Organisations
AUGUST	CHAPTER 7 – Security in the Contemporary World CHAPTER 8 – Environment and Natural Resources
SEPTEMBER	CHAPTER 9- Globalisation CHAPTER 10- Challenges of Nation Building CHAPTER 11 – Era of One Party Dominance
OCTOBER	CHAPTER 12-Politics of Planned Development CHAPTER 13- India's External Relations

	CHAPTER 14 – Challenges to and Restoration of the Congress System
NOVEMBER	CHAPTER 14- The Crisis of Democratic Order CHAPTER 15- Regional Aspirations CHAPTER 16- Recent Developments in Indian Politics
DECEMBER	PRE - BOARDS

HISTORY

MONTH	TOPICS COVERED
APRIL	Theme 1 Bricks, beads and bones Theme 2 Kings, farmers and towns
JULY	Theme 3 Kinship, caste and class Theme 4 Thinkers, beliefs and buildings
AUGUST	Theme 5 Through the eyes of travellers Theme 6 Bhakti, sufi traditions
SEPTEMBER	Theme 7 An imperial capital: vijayanagar
OCTOBER	Theme 8 Peasants, zamindars and the state Theme 10 Colonialism and the countryside
NOVEMBER	Theme 11 Rebels and the raj Theme 13 Mahatma gandhi and the nationalist movement Theme 15 Framing the constitution
DECEMBER	REVISION

ENGLISH

MONTH	LITERATURE	WRITING
APRIL	Flamingo : Ch-1 - The Last Lesson Poem : My Mother At Sixty-Six Vistas : Ch-1 : The Third Level Ch-2 : The Tiger King	Notice writing Invitation and Replies (Formal and Informal)
JULY	Flamingo : Ch-2 : Lost Spring Ch-3 : Deep Water Poem : Keeping Quiet Vistas : Ch-3 : Journey to the End of the Earth	Invitation and Replies (continued) Letter to the Editor
AUGUST	Flamingo : Ch-4 :The Rattrap Ch-5 : Indigo Poem : A Thing of Beauty Vistas : Ch-4 : The Enemy Assessment of LISTENING and SPEAKING Skills	Letter of Job Application
SEPTEMBER	Flamingo : Ch-6 : Poets and Pancakes Poem : A Roadside Stand	Report Writing

	Vistas : Ch-5 : On the Face of It	
	Revision	
OCTOBER	Flamingo : Ch-7 : The Interview (Part I and II), Ch-8 : Going Places Poem : Aunt Jennifer's Tigers Vistas : Ch-6 : Memories of Childhood • The Cutting of My Long Hair • We Too are Human Beings English Project Work : Guidelines to be shared with students	Article Writing
NOVEMBER	Flamingo : Revision Vistas : Revision English Project Work : Suggestions and Improvements to be made wherever necessary.	Reading Comprehension
DECEMBER	Pre-Board Exam - 1 English Project : Submission of Project Portfolio	
JANUARY	Pre-Board Exam - 2	
FEBRUARY	Final Board Exam	

HINDUSTANI VOCAL MUSIC (CODE NO. - 034)

MONTH	Theory	Practical
APRIL	Definitions - Alankar, Kan, Meend, Khatka, Murki, Gamak, Grama, Murchna, Alaap, Taan	Raag Bhairav (Aaroh, Avroh, Pakad, Sargam, Lakshangeet, Chotakhyaal along with taan and Tarana)
JULY	• Taal Notation (Tha, Dugun, Tigun and Chaugun) • Time theory of Raag	• Raag Bhairav (Badakhyaal along with Aalap and Taan) • Taal (4)
AUGUST	Detail study of the- ➤ Sangeet Ratnakar ➤ Sangeet Parijat	Raag Bageshri (Aaroh, Avroh, Pakad, Sargam, Lakshangeet, Chotakhyaal along with taan)
SEPTEMBER	• Raag varnan • Knowledge of tuning of Tanpura	• Raag Bageshri (Badakhyaal along with Aalap and Taan) • Devotional Song • Taal (4)
OCTOBER	Contribution of musicians: 1. Ustad Faiyaz Khan 2. Ustad Bade Gulam Ali Khan 3. Pt. Krishna Rao Shankar Pandit	• Raag Malkouns (Aaroh, Avroh, Pakad, Sargam, Lakshangeet, Chotakhyaal along with taan) • Taal (4)

NOVEMBER	Critical study and notation writing of the composition of prescribed ragas	• Ability to recognize the ragas • Raag Malkauns (Tarana and Dhamar)
DECEMBER	Pre-Board Exam - 1	Revision
JANUARY	Pre-Board Exam - 2	Revision

PHYSICAL EDUCATION

MONTH	CHAPTER
APRIL	1. PLANNING IN SPORTS • Function of sports management • meaning and concept planning • various committees and their responsibility • tournaments: knock-out, league, league cum knock-out • intramurals and extramurals • specific sports programme
JULY	2. . CHILDREN AND WOMEN IN SPORTS • motor development and factor affecting it • Common postural deformities. • Kyphosis, Lordosis, Knock knee , Bow leg, Flat foot, • weight training • special consideration • Meenarch and menstrual dysfunction 3. YOGA AS PREVENTIVE MEASURE FOR LIFESTYLE DISEASES • asana as preventive measures • obesity, asthma, hypertension, backpain • procedure, benefits and contraindication • types of asana • elements of yoga • types of pranayama
AUGUST	4. PHYSICAL EDUCATION AND SPORTS FOR DIFFERENTLY ABLED • concept of disability and disorder • types of disability (cognitive, intellectual, physical disability) • types of disorder (ADHD, SPD, ASD, OCD, ODD) • disability etiquettes • strategies to make physical activities 5. SPORTS AND NUTRITION • balance diet: macro and micro nutrients • components of diet • factor affecting diet • eating disorders • energy requirement
SEPTEMBER	6. TEST AND MEASUREMENT IN SPORTS • Fitness test SAI KHELO INDIA FITNESS TEST • Rikli and Jones test • Computation of basal metabolic rate 7. KINESIOLOGY, BIOMECHANICS AND SPORTS • Meaning and importance of bio mechanics • Newton's law of motion • Equilibrium in sports • Friction and sports • Types of movements

OCTOBER	8. PHYSIOLOGY AND SPORTS • Gender differences • Physiological factor determining components of physical fitness. • Effect of exercise on various systems of the body • Physiological changes due to aging. 9. PSYCHOLOGY AND SPORTS • Understanding stress and coping strategies. • Personality • Motivation • Psychological benefits of exercise
NOVEMBER	10. TRAINING IN SPORTS • Concept of talent identification. • Sports training cycle. Micro, meso, macro • Types and method of developing • Strength, speed, endurance, flexibility, coordinative ability. • Circuit training and high altitude training.
DECEMBER	REVISION

COMPUTER SCIENCE(SUBJECT CODE: 083)

MONTH	Unit/Lesson
APRIL	• Review of Python Basics • Computer Networks • Functions in Python: Introduction to user defined functions
JULY	• Functions in Python • Types of Parameters • Global and Local Scope • Mutability and Immutability using various datatypes in functions • Python's In-built functions
AUGUST	• Using Python Libraries: Modules in Python (string, random, math) • Data File Handling - Text File: opening and closing, reading and manipulating data, appending data. • Binary file: open and close, various operations (read, write, search etc). • Exception Handling
SEPTEMBER	• File handling: CSV File: Open and close, Read and write operations • Data Structures : List: creating and manipulating, functions and methods related to list. • Stacks in Python: Push and pop operations in Stack using list.
OCTOBER	• Database concepts, relational database model. • SQL: data types, SQL commands, SQL functions. • Joins: equi-join and natural join
NOVEMBER	• Interface of python with an SQL database: Connecting SQL with Python,

APPLIED MATHEMATICS

MONTH	Chapter No.	Chapter Name
APRIL	3	Matrices
	4	Determinants
	5	Higher Order Derivatives
JUNE	5	Higher Order Derivatives(contd.)

JULY	6	Applications of Derivatives
	7	Integration and its Applications
AUGUST	8	Differential Equations
	1	Numbers, Quantification and Numerical Applications
	2	Numerical Inequalities
SEPTEMBER	9	Probability Distributions
	11	Time Based Data
OCTOBER	12	Perpetuity, Sinking Funds and EMI
	12	Bond Valuation, CAGR, Depreciation
NOVEMBER	13	Linear Programming
	10	Inferential Statistics

PAINTING

MONTH	TOPICS
APRIL	History of Miniature Art in India. Rajasthani School of Miniature Painting.
JULY	Pahari School of miniature painting. Mughal School of Miniature Painting. Paintings of Mughal School.
AUGUST	Deccan School of Miniature Paintings Evolution of Indian National Flag. Bengal School of Painting
SEPTEMBER	Bengal School of Painting. Artist of Bengal School, Contribution of the artist of Bengal School in National Freedom Struggle. Evolution of Modern Trends in Indian Art.
OCTOBER	Modern Trends in Indian Art (Painting) Modern Trends in Indian Art (Graphics)
NOVEMBER	Modern Trends in Indian Art (Sculpture)
DECEMBER	REVISION