CARMEL
JAMMU
BELIEF ENHANCES LIFE

SYLLABUS FOR 2022-23
Class:-XII

ENGLISH

MONTH	PROSE	POEM	GRAMMAR
APRIL	The Last Lesson (Alphonse Daudet) The Third Level (Jack Finney)	My Mother At Sixty Six (Kamla Das)	Tenses, Formal & Informal Invitations
May-June	The Lost Spring (Anees Jung) The Tiger King (Kalki)	An Elementary School Classroom In A Slum (Stephen Spender)	Advertisement
July-Aug	Deep Water (William Douglas) Journey To The End Of The Earth (Tishani Doshir)	Keeping Quiet (Pablo Neruda)	Change of voice Resume with Job Application
SEPTEMBER	The Enemy (Pearl S. Buck) Indigo (Louis Fischer) Should Wizard Hit Mommy (John Updike)	A Thing Of Beauty (John Keats)	Reflexive pronouns, Article
OCTOBER	A Roadside Stand (Robert Frost) Poets And Pancakes (Louis Fischer & Stephen Spender	REVISION FOR T1	REVISION FOR T1
NOVEMBER	Evans Tries An O-Level (Colin Dexter) The Interview (Christopher Silvester)	Aunt Jennifer's Tiger (Adrienne Rich)	Conjunctions Letter Writing Debate Speech
DECEMBER	Going Places (A.R. Barton) * We Too Are Human (Bama)	------	Prepositions Humorous writing
JANUARY	REVISION	REVISION	Personality Profile Personal Experience
FEBRUARY	PRE BOARDS	PRE BOARDS	PRE BOARDS
MARCH	REVISION FOR T2	REVISION FOR T2	REVISION FOR T2
APRIL	T2 EXAMS		

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CHEMISTRY

MONTH	CHAPTER	EXPERIMENT
April	Haloalkenes& Haloarenes; Alcohols, phenols & Ether	1.Volumetric Analysis(Titration)
May	Aldehyde, ketones and carboxylic acids Amines	2.To study the rate of reactions-Clock reaction 3. To study the cell potential of electrochemical cell
June-July	d & f –block elements	4. To Prepare Potash alum.
August	p-block elements & Surface Chemistry	5. Preparation of one lyophilic and one lyophobic sol-Starch/gum/egg albumin.
September	Coordination Chemistry ; & General principles in Extraction of metal + Revision	6. To prepare Acetanilide o P-nitroacetanilide.
October	solid state & solution	7.Functional group analysis-Alcoholic/phenolic/aldehydic/ Ketonic ,Carboxylic& amino.
November	Electrochemistry	8.Qualitative Analysis.-To determine one cation& anion in a given salt.
December	Biomolecules/ polymer Revision	9.Project work- Common Food adulterants Quantity of Casein in milk Preparation of Soyabean milk

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BIOLOGY

MONTH	LESSON NO./CHAPTER	EXPERIMENT/PRACTICALS
MAY	1)Human Reproduction 2)Reproductive Health	1) Study of pollen germination on a slide. 2) Identification of stages of gamete development through permanent slides.
JULY	1) Principle of Inheritance and Variation 2) Molecular Basis of Inheritance	1) Preparation of temporary mount of onion root tip. 2) Study of flowers adapted to pollination by different agencies.
AUGUST	1)Evolution 2)Human Health and Diseases	1) Study of plant population density and frequency by Quadrate method.
SEPTEMBER	1)Biotechnology: Principles and Processes 2)Biotechnology and its Applications	1)Field visit 2) Prepared Pedigree charts of genetic traits.
OCTOBER	1)Strategies for Enhancement in food production 2)Microbes in Human Welfare	1)Observation of T.S Blastula through permanent prepared slide. 2) Identification of common diseases causing organisms.
NOVEMBER	1)Organisms and Population 2)Ecosystem 3)Biodiversity and conservation	1) To study the effect of the different temperature & PH on the activity of Salivary amylase on starch.
DECEMBER	1)Environmental issues Revisions	Pre – boards

Book prescribed: A text book of biology for class XII published by NCERT.

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PHYSICS

Month	Topic	Experiments
April	Electrostatics	To determine Resistance per cm of given Wire using Ohm's law.
May	Current electricity	To find resistance of a given wire using metre bridge and hence find resistivity. To verify laws of combination of resistance Using metre bridge.
June	Magnetics effects of current and Magnetism	To determine emf of two given primary cell Using potentiometer .
July	Electro-magnetic induction and AC	To determine internal resistance of a given cell using potentiometer.
August	EM Waves	To find focal length of a convex mirror.
September	Optics	To find focal length of a concave lens.
October	Dual nature of matter and radiation	To find the focal length of convex lens by plotting a graph between u and v. To find angle of minimum deviation.
November	Atoms and Nuclie	To determine refractive index of a glass slab using a travelling microscope.
December	Electronic Devices	To draw I-V characteristics curve of a p-n junction in forward bias and reverse bias.
January	Communication	To draw the characteristic curve of a zener diode and determine its reverse breakdown voltage.

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ECONOMICS

MONTH	CHAPTER NO.	TOPICS	ACTIVITIES
APRIL	Chpt 1	Economics, Economy and Central Problems of an Economy	Worksheets and numericals on Elasticity of Demand.
	Chpt 2	Consumer Equilibrium- Utility Analysis	
	Chpt 4	Theory of Demand	
	Chpt 5	Price Elasticity of Demand	
MAY	Chpt 6	Production Function and Returns to a Factor	
	Chpt 7	Concepts of Cost	
	Chpt 8	Concepts of Revenue	
	Chpt 9	Producer's Equilibrium	
JULY-AUGUST	Chpt 10	Theory of Supply	Worksheets and numericals on Elasticity of Supply. Project on forms of market
	Chpt 11	Forms of Market	
	Chpt 12	Market Equilibrium Under Perfect Competition and Effects of shift in Demand and Supply	
MACROECONOMICS			
SEPTEMBER	Chpt 1	Some Basics concepts of Macroeconomics	Worksheets on computation of National Income ,Private Income and Personal Income
	Chpt 2	National Income and Related Aggregates	
	Chpt 3	Methods of Calculating National Income	
	Chpt 4	Money and Supply of Money	
OCTOBER	Chpt 5	Banking : Commercial Banks and The Central Bank	Worksheets on each concepts and numeric
	Chpt 6	Aggregate Demand and its Components	
NOVEMBER	Chpt 7	Short Run Equilibrium Output	

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BUSINESS STUDIESCLASS

MONTH	Chpt NO.	TOPICS	ACTIVITIES
APRIL	Chpt 1	1. Nature and significance of Management	1.Newspaper reading – Newspaper of the last one week shall be read out in the class with special mention of the changes in economic policies of the Govt and their effect.
	Chpt 2	2. Principles of Management	
	Chpt 3	3. Management and Business Environment	
MAY	Chpt 4	4. Planning	Involvement of students in passing the parcel
	Chpt 5	5. Organising	
JULY-AUGUST	Chpt 6	6. Staffing	Introducing real life examples
SEPTEMBER	Chpt 7	7. Directing	
	Chpt 8	8. Controlling	
OCTOBER		REVISION & T1 EXAM	
NOVEMBER	Chpt 9	9. Business Finance	
	Chpt 10	10. Financial Markets	Group Discussion on: Money market and capital market along with financial instruments
DECEMBER	Chpt 11	11. Marketing Management	
	Chpt 12	12. Consumer Protection	
JANUARY		PREBOARD 1	
FEBRUARY		PREBOARD 2	

ACCOUNTS

Month	Topics **Part A**
April	Ch-1 Partnership Basic Concepts Ch-2 Goodwill – Nature & Valuation Ch-3 Reconstitution of Partnership
May	Ch-4 Admission of a Partner Ch-5 Retirement & Death of a partner
June to July	Ch-6 Dissolution of Partnership Firm Ch-7 Share capital Issue of share capital
August	Ch-8 Issue of Debentures Ch-9 Redemption of Debentures
September to October	**Part B** Financial Statement Analysis
November	Revision of Part A
December	Revision of Part B

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PUBLIC ADMINISTRATION

Month	Topic
April	Ch -1.HISTORICAL BACKGROUND
May-June	Ch -2. INDIAN CONSTITUTION. Ch -3. CENTRAL ADMINISTRATION .
July-August	Ch -4. PERSONNEL ADMINISTRATION IN INDIA Ch -5. PLANNING IN INDIA
September	Ch -6. CENTRE –STATE RELATIONSHIP Ch -7. STATE ADMINISTRATION
October	Ch -8.DISTRICT ADMINISTRATION
November	Ch -9.RURAL AND URBAN GOVERNMENT Ch -10. E- GOVERNANCE

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POLITICAL SCIENCE

Month	Topic/ Lesson No.
April	L.No 1. Cold war Era In World Politics L. No.2 –Disintegration Of Second World & Collapse . L.No 3 –US Dominance In World Politics .
May-June	L.No -4 .Alternative Centres Of Economic &Political Power. L.No.5-South Asia In The Cold War Era L.No.6 –International Organisation In A Unipolar World L.No 7- Security In Contemporary World
July-August	L.No-8 Globalisation And Its Critics L.No-9 Environment And Natural Resources L.No.10 Nation Building And Its Problems .
September	L.No 11 Era Of One Party Dominance L.No.12 Politics Of Planned Development L.No.13 India s External Relations
October	L.No -14 Challenges And Restoration Of Congress System L.No 15 Crisis Of Constitutional Order
November	L.No 16 Regional Aspirations &Conflicts L.No.17 .Rise Of New Social Movement . L,No 18 – Recent Developments In Indian Politics .

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PHYSICAL EDUCATION

MONTH	TOPIC
April	Concept of physical fitness
May	Training Methods
July & August	Sociological Aspects of Physical Education
September	Moral Education
October	Sports & Environment
November	Yoga & Practices
December	Concepts OF Major Games & Sports: 7.1:- CRICKET 7.2:- ATHLETICS 7.3:- BASKETBALL 7.4:- TABLE TENNIS
January	Sports Medicine , FIRST Aid & Rehabilitation
Febuary	Revision

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MATHS

MONTH	TOPIC
April	Matrices
May	Determinants and Continuity and differentiability
July + August	Application of derivatives and Relations and Functions Inverse Trigonometric function
September	Integral
October	Applications of integrals Differential equations
November	Three dimensional geometry. Linear programming. Probability.
December	vector algebra + Revision.

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COMPUTER

Term	Month	Std 12		Activities(During class)	Activities(After class)
1	April	Unit 1	Object Oriented Programming in C++	Create a class named 'Student' with a string variable and integer variable. Assign the value by creating an object of the class Student.	Assign and print the roll number, phone number and address of two students having respectively by creating two objects of the class 'Student'.
	May	Unit 2	Constructor and Destructor	Write a program to print the area and perimeter of a triangle having sides of 3, 4 and 5 units by creating a class named 'Triangle' with the constructor having the three sides as its parameters	Write a program to print the area of two rectangles having sides (4,5) and (5,8) respectively by creating a class named 'Rectangle' with a function named 'Area' which returns the area. Length and breadth are passed as parameters to its constructor.
	July	Unit 8	Networking and Cyber Security	Group discussion 'on safe surfing'	Make a PowerPoint depicting types of network and the topologies
				Prepare an electronic poster on theme cloud computing.	Make a Quiz based on the topic Cyber Security.
	August	Unit 3	Function Overloading	Write two functions have different parameter type.	
			Inheritance (Extending Classes)	Group discussion 'on hierarchy of a family'	WAP to demonstrate (Multilevel Inheritance)
					WAP to demonstrate (Hierarchical Inheritance)
	September	Unit 4	Pointers	Declare an integer pointer variable ip.	Declare an array named arr and store 6 integers into it using pointers.
				Print the values stored at the address of the pointer ip	
	October			Revision & Exams	
2	November	Unit 5	Data Structures	Print addition of two matrices.	Sort an array in ascending /descending order
				Print array in a reverse order.	Perform Push and pop operations on stack.
		Unit 6	Database and SQL	Create a table and apply some constraints.	Use Alter Table, Update and Drop Table, Drop view and Delete commands
				Use select command to view the data	
	December	Unit 7	Boolean Logics	Draw a Truth Table for x(y+z)+xy'.	Write the dual of the Boolean expression (UV+W)(V'+U)
				Verify the expression X+XY=X through a truth table.	Find complement of the Boolean expression using De Morgan's theorem (X +Y'+Z).(X+Y)
				Draw 3 variable K-Map	Write SOP for the function F=X'Y'Z'+X'YZ+XYZ'

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ENVIRONMENT SCIENCE

MONTHS	CHAPTERS/UNIT	PROJECTS/EXPERIMENTS
MAY	I.Air and noise pollution	1)To determine the water holding capacity of the given samples of soil.
JUNE	II.Water Pollution	2)To measure the soil temperature. 3)To test the moisture content of given samples of soil.
JULY-AUGUST	III.Soil Degradation	4)A general study of environmental quality after paying visit to a particular area.
SEPTEMBER	IV.Solid and Hazardous Waste Management	5)To determine the population density of a community by quadrant method.
OCTOBER	V.Biodiversity management	6)To study population frequency of a community by quadrant method.
NOVEMBER	VI.Global Environmental Issues	7)To test the PH of the given samples of soil.
DECEMBER-JANUARY	VII. Environmental Management and Legislation	Revisions