Breakup Syllabus for **Class XII**

Subject-   English   Books – **Flamingo, Vistas, The Invisible Man**

Month	Chap.	Perd.	Topics to be covered	Activity
April	F 1 V 1	6 6 6	My Mother at Sixty Six The Last Lesson The Third Level Notice Writing	Reading
May	F 2 F 3 V 2	5 5	Lost Spring Keeping quite The Tiger King Formal & Informal invitation & reply	Speaking
June	F 3 F 4 V 3	6 6 4	Deep Water The Rattrap A Thing Of Beauty Journey to the end of the earth Formal Letter Unseen passage	Project Work
July	F 5	6 6 13	Indigo Editorial Letter	PPT 1
August	F 6 V 4	5 5 14	Poets & Pancakes A Roadside Strand The Enemy Report & Article writing	Listening
September	F 7	5 6 2	The Interview Part 1 & 2	ASL
October	F 6 V 6	6 6 5	Aunt Jennife's Tigers On the Face It Writing Exercise Practice	
November	F 8 V 8	6 6 6 5	Going Places Memories Of Childhood Unseen Passage	ASL
December			Revision Whole book	MOCK TEST 1 & 2

Subject-   Maths   Books –NCERT, R D Sharma

Month	Chap.	Perd.	Topics to be covered	Activity
April	1 2	18	Relations and Functions Inverse Trigonometric Function	To verify that the relation R in the set L of all lines in a plane, defined by R = {(l,m):l is perpendicular to m} is symmetric but neither reflexive nor transitive
May	3	10	Matrices	To verify that the relation R in the set L of all lines in a plane, defined by R = {(l,m):l is parallel to m} is an equivalence relation
June	4	16	Determinants	To demonstrate a function

Month	Chap.	Perd.	Topics to be covered	Practical
				which is not one-one but is onto
July	5 6	10 10	Continuity and Differentiability Application of derivatives	To demonstrate a function which is one-one but not onto
August	7	10	Integrals	To explore the principal value of the function $\sin^{-1}x$ using a unit circle
September	8	11	Application of Integrals	To understand the concepts of decreasing and increasing function
October	9 10	6 6	Differential Equation Vector Algebra	To construct an open box of maximum volume
November	11 12 13	23	Three Dimensional Geometry Linear Programming Probability	To find the time when the area of a rectangle of given dimension become maximum
December			Revision	To verify that amongst all the rectangles of the same perimeter, the square has the maximum area

Subject- Physics   Books –NCERT Physics, Modern ABC

Month	Chap.	Perd.	Topics to be covered	Practical
April	1 2	9 9	Electric Charges and Fields Electrostatic potential and capacitance	Ohm's law experiment
May	3	8 2	Current Electricity Revision Ch 1,2	Meter bridge experiment
June	4 5	8 8	Moving charges and Magnetism Magnetism and Matter	Parallel connections using meter bridge
July	6 7	10 10 5	Electromagnetic Induction Alternating Current Revision Ch 3,4	Series connection using meter bridge
August	8 9 10	10 7 7	Electromagnetic Waves Ray optics and optical instruments Wave optics	To find the value of image distance for different u values
September	11 12	5 6	Dual nature of matter and Radiation Atoms	Find the focal length of convex mirror
October	13 14	7 10	Nuclei Semi Conductor Electronics	Determine angle of minimum deviation
November	15	10 5	Semi Conductor Electronics Revision	Determine the value of refractive index
December	15		Revision	

Subject- Chemistry   Books –NCERT Chemistry, Modern ABC

Month	Chap.	Perd.	Topics to be covered	Practical
April	2	18	Solution	Preparation of Oxalic acid solution
May	3	10	Electrochemistry	Titration
June		16	Electrochemistry	Preparation of Mohr's salt and
	4		Chemical Kinetics	Titration

July	4	25	Chemical Kinetics The d and f element	Salt analysis
August	9 8	24	Coordination Compounds The d and f block elements	Salt analysis
Half Yearly Examination				
September	10 11	11	Haloalkane and Haloarene Alcohols, Phenols and Ethers	Identification of Functional groups
October	12	17	Aldehydes , Ketones and Carboxylic acids	Identification of functional groups
November	13 14	23	Amines Bio Molecules	Identification of functional groups
December			Revision and Mock Test	Practice

Subject-   Biology   Books –NCERT Biology, Modern ABC

Month	Chap.	Perd.	Topics to be covered	Practical
April	2 3	3 4	Sexual reproduction in flowering plants Human reproduction	Pollen germination
May	4	4	Reproductive Health	Quadrat method
June	5	3	Principles of inheritance and variation	Mitosis of Onion root tip
July	6 7	3 5	Molecular basis of inheritance Evolution	Isolation of DNA Pollination by different agents
August	8 10	4 4	Human health and diseases Microbes in Human Welfare	Pollen germination on stigma Meiosis in Onion bud cell or grasshopper testis
September	11 12	5 5	Biotechnology: Principle & Processes Biotechnology & its Application	Blastula Mendelian Inheritance
October	13	5	Organisms and Population	Pedigree analysis Emasculation, Tagging and Bagging
November	14 15	5 4	Ecosystem Biodiversity and its Conservation	Common disease causing microorganism Root nodules of leguminous plants
December			Revision And Mock Test	Homologous and Analogous organs

Subject- Computer App. (XII)   **Reference Books – Computer Sci. with python**

Month	Working Days	Topics to be covered	Activity
April	17	**Computer Networks** ● Evolution of networking: introduction to computer networks, evolution of networking(ARPANET, NSFNET, INTERNET) ● Data communication terminologies: concept of communication, components of data communication (sender,receiver, message, communication media, protocols), IP address, switching techniques (Circuit switching, Packet switching)	Practical on IP address
May	15	Transmission media: Wired communication media (Twisted pair cable, Co-axial cable,Fiber-optic cable), ● Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN),networking topologies (Bus, Star, Tree)	
June		**Database Management**	Practical on Database

	15	● Database concepts: introduction to database concepts and its need ● Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)	concepts
July	25	Structured Query Language:	Practical on Database concepts SQL
August	26	cartesian product on two tables, equi-join and natural join ● Interface of python with an SQL database:	Practical on Database concepts SQL
September	10	Python topics covered in Class XI.	Practical on python
September	7	Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function , flow of execution, scope of a variable (global scope, local scope)	Practical on python
October	15	Exception Handling: Introduction, handling exceptions using try-except-finally block	Practical on Practical on python
November	21	Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths	Practical on python
December	20	(r, r+, w, w+, a, a+)	Practical on python
January	22	Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file	Practical on python
February	23	● CSV file: import csv module, open / close csv file, write into a csv file using writer(),writerow(),writerows() and read from a csv file using reader() ● Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.	Practical on python

Sub : Physical Education

Chapter	Period	Topics to be covered and activity	Practical
1	15	Changing trend & career in physical education	SAI khelo india test practice
		Changing trend & career in physical education	SAI khelo india test practice
2		Olympic value education	
5	14	Yoga	Yogasanas practice

4	13	Physical education& sports for CWSN	Yogasanas practice
3	10	Physical fitness,wellness	Yogasanas practice
7	15	Test, measurement & Evaluation	Brockport physical fitness test
8 9	15 8	Fundamentals of Anatomy and physiology in sports Psychology & sports	Cricket practice
10	10	Training and doping in sports **Revision and Mock test**	Kho-kho practice Volleyball practice