

Airport School, Ahmedabad ACADEMIC SESSION 2024-25 SYLLABUS

SUBJECT: ENGLISH CLASS: XII SCI

MONTH	LITERATURE READER (FLAMINGO)	SUPPLEMENTARY READER (VISTAS)	WRITING
APRIL-	CH.1- THE LAST LESSON	CH.1- THE THIRD LEVEL	NOTICE WRITING
MAY	CH.2- LOST SPRING POEM.1- MY MOTHER AT SIXTY-SIX	CH.2 - TIGER KING	
	POEM.2 KEEPING QUIET		
JUNE	CH.6 - POETS AND PANCAKES POEM. 3 - A THING OF	CH.3 – JOURNEY TO THE END OF THE EARTH s	NOTICE WRITING PRACTICE FORMAL INVITATION
	BEAUTY		

PT 1 SYLLABUS:

CH. LOST SPRING

CH. JOURNEY TO THE END OF THE EARTH

NOTICE WRITING

CH.3 - DEEP WATER	CH. 4- THE ENEMY	FORMAL INVITATION
		AND REPLIES
CH.4 – THE RATTRAP		FORMAL LETTER
POEM. 4 - ROADSIDE STAND		1. EDITOR
		2. JOB APPLICATION
REVISION	REVISION	REPORT WRITING
CH.5 - INDIGO		ARTICLE WRITING
	CH.4 – THE RATTRAP POEM. 4 – ROADSIDE STAND REVISION	CH.4 – THE RATTRAP POEM. 4 – ROADSIDE STAND REVISION REVISION

HALF YEARLY SYLLABUS:

FLAMINGO- 1,2,3,4

VISTAS- 1,2,3,4

POEM - 1,2,3

NOTICE WRITING PRACTICE

FORMAL INVITATION AND REPLIES

FORMAL LETTER

- 1. EDITOR
- 2. JOB APPLICATION

OCTOBER	CH.5 - INDIGO	CH.5 – ON THE FACE OF IT	
	POEM.5 AUNT JENNIFER'S		
	TIGER		
NOVEMBER	CH.7 – THE INTERVIEW	CH. 6 - MEMORIES OF THE	
	CH.8 - GOING PLACES	CHILDHOOD	

PRE-BOARD EXAMS: COMPLETE SYLLABUS

SUBJECT: PHYSICS CLASS: XII SCI

MONTH	LESSONS/CHAPTERS	ACTIVITIES/PRACTICALS
APRIL	Ch-1. Electric charges and fields	Exp 1: Resistivity by ohm's law
	Ch-2. Electrostatic Potential and	Exp 2: Resistance by meter bridge
	Capacitance	
		Exp 3: Combination of resistance
JUNE	Ch-3. Current Electricity	Exp 4: G by Half deflection and figure of merit
	Ch-4. Moving Charges and	Exp 5: Converting Galvanometer into
	Magnetism	voltmeter and ammeter
JULY	Ch-5. Magnetism and Matter	Exp 6: Frequency of AC mains by sonometer
	Ch-6. Electromagnetic Induction	Exp 7: Focal length of concave mirror
		Exp 8: Focal length of convex lens
PT 1 SYLLAB	US : Ch. : 1 and Ch. : 2	,
AUGUST	Ch-7. Alternating current	Exp 9: Focal length of convex mirror
	Ch-8. Electromagnetic Waves	Exp 10: Focal length of concave lens
		Exp 11: Refractive index of liquid by concave
		mirror
SEPTEMBER	Ch-9. Ray Optics	Exp 12: Refractive index of liquid by convex
		lens and plane mirror
	Ch-10. Wave Optics	Exp 13: Refractive index of glass slab by
		travelling microscope
HY SYLLABU	S: Ch.: 1 to Ch.: 7	
OCTOBER	Ch-11. Dual Nature of Radiation	Exp 14: Minimum deviation by prism
	and Matter	
	Ch-12. Atoms	Exp 15: IV characteristics of simple diode in
		forward bias and reverse bias
NOVEMBER	Ch-13. Nuclei	
	Ch-14. Semiconductor electronics:	
	Material, devices and simple	
	circuits	

SUBJECT: CHEMISTRY CLASS: XII SCI

MONTH	LESSONS/CHAPTERS	ACTIVITIES/PRACTICALS
APRIL	Ch-1 Solution &Ch - 10 Halo	Volumetric Titration (Oxidation -
	alkane & Haloaerene	Reduction) KMnO ₄ Vs Mohr's Salt &
		KMnO ₄ Vs Oxalic acid
MAY	Ch – 10 Halo alkane & Haloaerene	Salt Analysis: gr – 0
	(contd)	

JUNE	Ch - 11-Alcohol, Phenols & Ethers	Salt Analysis: gr – 1 & 2
	Ch - 13 - Amines	
JULY	Ch - 12 - Aldehyde & Ketones	Salt Analysis: gr – 3 & 4
	Ch – 3 – Electrochemistry	
P.T. – 1 SYLL	ABUS: Ch - 1 : Solution and Ch -	10 : Halo alkane & Haloaerene
AUGUST	Ch – 4 – Chemical Kinetics	Salt Analysis: gr – 5 & 6
	Ch – 8 – d & f – Block Elements	
SEPTEMBER	Ch – 8 - d & f – Block Elements	Organic Functional Group Detection
	(contd)	
HALF-YEARL	Y SYLLABUS: Ch 1,3,4 10, 11 & 12.	
OCTOBER	Ch – 9 – Co – ordination	Organic Functional Group Detection
	Compound	
	Ch - 14 - Bio - Molecules	
NOVEMBER	Ch - 14 - Bio - Molecules (contd)	Organic Functional Group Detection
PRE-BOARD	EXAMS: Full syllabus	'

CLASS: XII SCI

SUBJECT: MATHEMATICS

MONTH	CHAPTERS	ACTIVITIES
APRIL	Ch3. Matrices	
	Ch4. Determinants	
	Ch1. Relations and Functions	
MAY	Ch1. Relations and Functions	
	(contd)	
JUNE	Ch1. Relations and Functions	(1) To verify that the relation R in the set L of
	Ch2. Inverse Trigonometric	all lines in a plane, defined by $R = \{(l,m): l \perp \}$
	Functions	m } is symmetric but neither reflexive nor
	Ch5. Continuity and	transitive.
	Differentiability	
		(2) To verify that the relation R in the set L of
		all lines in a plane, defined by $R = \{(l, m) : l \parallel$
		m } is an equivalence relation.
JULY	Ch5. Continuity and	(3) To demonstrate a function which is not
	Differentiability (contd)	one-one but is onto.
	Ch6. Application of	(4) To demonstrate a function which is one-
	Derivatives	one but not onto.
		(5) To find analytically the limit of a function
		at a point and also to check the continuity of
		the function at that point.

	Derivatives (Contd)	maximum and absolute minimum of a
	Ch7. Integrals	function in a given closed interval through its
		graph.
		(7) To construct an open box of maximum
		volume from a given rectangular sheet by
		cutting equal squares from each corner
SEPTEMBER	Ch7. Integrals (Contd)	
Syllabus for H.Y	: Chapters: 1, 2, 3, 4, 5 and 6	
OCTOBER	Ch8. Application of Integrals	(8) To verify that angle in a semi-circle is a
	Ch9. Differential Equations	right angle, using vector method.
	Ch10. Vector Algebra	right dright, daining vector metriod.
NOVEMBER	Ch10. Vector Algebra	(9) To locate the points to given co-ordinates
	(Contd)	in space, measure the distance between two
	Ch11.Three-dimensional	points in space and then to verify the
	geometry	distance using distance formula.
	Ch13. Probability	(10) To explain the computation of
	Ch12. Linear Programming	conditional probability of a given event A,
		when event B has already occurred, through
		an example of throwing a pair of a dice.
PRE-BOARD EXA	MS: All chapters	

(6) To understand the concepts of absolute

Ch6. Application of

AUGUST

SUBJECT: BIOLOGY CLASS: XII SCI

MONTH	LESSONS/CHAPTERS	ACTIVITIES/PRACTICALS
MARCH	Chap 1: Sexual Reproduction	Exp 1 (part B): To study adaptations of flowers
	in flowering plants	for pollinating agents
		Exp 2 (part B): To study controlled pollination
		by images or charts
APRIL	Chap 1: Sexual Reproduction	Class Test of chap 1 and 2
	in Flowering Plants (Contd)	Exp 1 (part A). To prepare a slide of pollen
	Chap 2: Human Reproduction	grain germination.
		Exp 3 (Part B). To study pollen germination
		through permanent slide
		Exp 4 (part B) : To observe permanent slides
		of blastula, mammal testes and ovary
		Diagram Practice using the worksheet
		Quiz
		Shown 3D models of male and female pelvic
MAY	Chap 3: Reproductive Health	Exp 2 (part A): Isolation of DNA

JUNE	Chap 4: Principles of	Exp 5 (part B): To study Mendelian
	inheritance	characteristics using pea seeds
	Chap 5: Molecular Basis of	Exp 6 (part B): Study pedigree chart of color
	Inheritance	blindness
PT-1 Syllabu	is Ch. 1 & 2	
JULY	Chap 7: Human health and	Exp 7 (part B): To study common diseases
	diseases.	causative agents and symptoms with the help
		of specimen
	Chap 8: Microbes in human	Exp 3 (part A): To study mitosis through onion
	welfare.	root tip
AUGUST	Chap 11: Organisms and	Exp 4 (part A): To study population density
	Population	and frequency of the given population.
	Chap 12: Ecosystem	
SEPTEMBER	Revision	
HALF YEARLY	SYLLABUS: Chapters: 1 to 5, 7	and 8
OCTOBER	Chap 9: Biotechnology:	Exp 8 (part B): To study symbiotic relationship
	Principles and Processes	with specimens of cuscuta, lichens and root
	Chap 10: Biotechnology and	nodules
	its application	
NOVEMBER	Chap 13: Biodiversity and	Exp 9 (part B): To study homologous and
	Conservation	analogous organs through charts/images
	Chap 6: Evolution	
PRE-BOARD	EXAMS: Full syllabus	

SUBJECT: COMPUTER SCIENCE

SUBJECT: COMPUTER SCIENCE		CLASS: XII SC	
MONTH	LESSONS/CHAPTERS	ACTIVITIES/PRACTICALS	
APRIL-MAY	Python MySQL Connectivity.	Python - MySQL Connectivity,	
	Revision of std. 11 [python basics, loops, working with list, tuple, dictionary]	Logical programs of list, tuples and dictionaries with searching, sorting	
JUNE	Functions, [Inbuilt-Predefined-UDF, Libraries, Packages, Modules]	Predefined functions, and its libraries. with package creating and use of yused defined modules	
JULY	Data File Handling [.txtbin,csv, Absolute, Relative path], Exceptional Handling.	Working with characters, words, lines, dumping loading records, working with csv files, applying paths to python programs	

PT-1 SYLLABUS:

- 1. Python-MySQL Connectivity
- 2. Functions
- 3. DHF

AUGUST	Linked list, Stacks, Queues, Stack	Pushing popping, add, remove search values
	Implementation	from data structure stack and queues
SEPTEMBER	DBMS, MySQL DDL, DML	SQL Queries making data base, adding
		values, searching filtering altering and
		removing records from database
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HALF YEARLY SYLLABUS:

- 1. PT-1 Syllabus
- 2. Data Structure
- 3. DBM-MySQL

OCTOBER	MySQL	Connecting tables, equijoin, natural join,
		aggregate functions
	Network and communication	CS project solutions
NOVEMBER	Network and communication, Revision	Python - MySQL practice and doubts solving