

Class XII PARENT SYLLABUS 2025 -2026 SCIENCE

<mark>Month</mark>	English	Math	Physics	Chemistry	Biology	Computer science	Economics	Psychology	P.Ed.
July	 Long Writing Skill: Job Application format content expression marking scheme Learning Outcome Ø state situations when they would draft a job application Ø supply inputs for the format, style and tone of a job application Ø use words and phrases, effective openings and closing of the letter Ø draft a job application and a curriculum vitae 	Topic: Integrals Learning Outcomes: Each student will be able to *define the concept of anti derivative *learn the integral of basic functions by the method of inspection *apply the method of substitution of substitution of substitution to solve problems of integration by using trigonometric identities *derive the solution of special integrals *apply the method of by parts and partial fractions to solve problems *perceive the concept of definite integral of a function *apply the properties of	Topic: Magnetism and Matter Subtopics: Bar magnet, solenoid *Magnetic field intensity due to a magnetic dipole (bar magnet) *Torque on a magnetic dipole (bar magnet) in a uniform magnetic field.*Magnetic properties of materials- Para-, dia- and ferro -magnetic substances with examples. Topic: Electromagnetic Induction Subtopics: *Electromagnetic induction; Faraday's laws *Induced EMF and current *Lenz's Law, Self, and mutual induction. Topic: Alternating Current	Topic: Electrochemistry Sub Topics: Redox reactions, Electrochemical & electrolytic cells Electrode potential and its measurement, EMF of a cell, standard electrode potential, Electrochemical series and its applications. Nernst equation & its application to chemical cells, Relation between Gibb's energy change & emf of a cell and Numerical. Conductance in electrolytic solutions, specific & molar conductivity, Variation of	Topic: Molecular Basis of Inheritance Subtopics: - Regulation of Gene Expression - Human Genome Project -DNA fingerprinting Topic: Evolution Subtopics: - Origin of Life -Evolution of Life Forms- A Theory -What are the Evidences for Evolution? - Adaptive Radiation -	MySQL- PYTHON Connectivity/ file Project PROJECT WORK (11 days) CSVFiles- (10 days) CSV file: import csv module, open / close csv file, write into a csv file using writer(),writero w(), writerows() and read from a csv file using reader()	DETERMINA TION OF INCOME AND EMPLOYME NT Aggregate demand and its component s Propensity to consume and propensity to save (Average and Marginal) Short -run equilibrium output; Investment multiplier and its	UNIT 4: Psychological Disorders Anxiety Disorders Obsessive- Compulsive and Related Disorders Trauma- and Stressor- Related Disorders Somatic Symptom and Related Disorders Dissociative Disorders Dissociative Disorders	Unit V - Sports & Nutrition Concept of Balanced Diet & Nutrition Macro & Micro Nutrients: Food Sources & Functions Nutritive & Non- Nutritive & Non- Nutritive & Non- Nutritive Components of Diet Eating for Weight Control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance & Food Myths Importance of

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2. Flamingo, Prose: The	*definite integrals in	Subtopics: *Alternating	conductivity with	Biological	Learning	working	Disorders	Diet in Sports –
Rattrap by Selma Lagerlof	solving problems	currents, peak and	dilution & related	Evolution -	Outcomes	Meaning of		Pre, During and
about the author	Topic:	RMS value of	numerical,	Mechanism	Each child will	full	Bipolar and	Post Competition
	- Application of	alternating	Kohlrausch law and	of Evolution	be able to-	employmen	Related	Requirements
 the essential 	Integration	current/voltage.	its applications-	and Hardy-	Create	tand	Disorders	
goodness in a human	Learning Outcomes:	Reactance (inductive	Numerical	Weinberg	interface of	involuntary		Learning
being can be awakened	Each child will be able	and capacitive),	Concept of	Principle	Python with an	unemploym	Schizophrenia	Outcomes
through understanding	to:	Phasor diagrams and	electrolysis,	-A Brief	SQL database	ent	Spectrum and	
and love.	*draw the curve	impedance (LCR	Faraday's laws of	Account of	Connect SQL	Problems of	Other	Each student will
	*find the point of	series circuit (phasors	electrolysis &	Evolution -	with Python	excess	Psychotic	be able to:
· the human	intersection	only). *Resonance,	related numerical	Origin and	Create	demand	Disorders	50 4510 10.
tendency to redeem	*identify the area to be	power in AC circuits.	Cells and batteries,	Evolution of	Database	and	Diccidere	Understand the
oneself from dishonest	calculated	Learning Outcomes:	Mechanism of	Man	connectivity or	deficient		concept of a
Ways	*calculate the area	Each student will be	corrosion.	IVICII	CSV /Binary	demand;	Neurodevelop	balanced diet and
Ways	bounded by the curves	able to:	Topic:Chemical	Topic:	file	corrective	mental	nutrition
· human loneliness	such as lines, ellipse,	*Magnetism and	Kinetics	Human	applications	measures;	Disorders	nutition
and the need to bond	parabola, circle.	Matter : *Compare and	Sub Topics: Rate of	Health and	Flipped	changes in	Disruptive,	Classify Nutritive
with others	parabola, onoie.	contrast the magnetic	a reaction	Disease	Learning:	governmen	Impulse-	and Non-
with others		field lines due to a	(instantaneous &	Subtopics: -	Algorithms to	t spending,	Control and	Nutritive
· the metaphor in	- TAG	solenoid and a bar	average) Factors	Common	read, write,	taxes and	Conduct	components of
the title	F IAG	magnet. *Infer the	affecting rate of	Diseases in	search, modify	money	Disorders	the Diet
Learning Outcome	TH A CIT		reaction (conc,	Humans -	and delete	•	DISUIDEIS	
	EAST					supply	Fooding and	Identify the wave
effectively provide a		magnetic field intensity	temp, catalyst) and	Immunity - AIDS -	records	Learning	Feeding and	Identify the ways to maintain a
synopsis of the		of a bar magnet by	their graphical		Project code	Outcomes	Eating Disorders	
story.		comparing it with that	representation.	Cancer -	for	Differentiate		healthy weight
Ø highlight the		of an electric dipole. *	Order and	Drugs and	connectivity-	Differentiate	Substance-	
values and		Deduce the equation	molecularity, rate	alcohol	stationery	between	Related and	Know about
thought process		for torque on magnetic	law, specific rate	abuse	shop	ex-post and	Addictive	foods commonly
of the story.		dipole in uniform	constant.	- ·	management	ex-ante in	Disorders	causing food
Ø identify the		magnetic field by	Integrated rate	Topic:	system	Economics.		intolerance
insecurity while		comparing with electric	equations & half-life	Microbes in	Sample	2. Define and		D
tackling		dipole. *Compare the	(zero and first order	Human	Project XII	create a		Recognize the
personal fears		properties of dia, para	reactions).	Welfare		consumption	Learning	pitfalls of dieting
and horrors		and ferro magnetic	Pseudo molecular	Subtopics: -	Each child will	function.	Outcomes:	and food myths
Ø appreciate the		materials. *Apply	reactions.	Microbes in	be able to	3.Define and		
significance of		formulae and concepts	Collision theory	Household	create and	formulate	Explain	
developing		to solve related	(elementary idea	products and	store data in	Average	different	Unit VI Test &
personal fears		questions from sample	only), Activation	Industrial	CSV files and	Propensity to	models of	Measurement in
yet rising above		papers, NCERT and	energy, Arrhenius	Products -	create a CSV	Consume	abnormal	Sport
them to savor		board papers.	equation	Microbes in	file based	(APC) and	behavior	
real liberty.		Electromagnetic	Mathematical	Sewage	application	Marginal		Fitness Test –
	l				1			

Ø learn new words		Induction:	expression.	Treatment	Flipped	propensity to	Describe the	SAI Khelo India
and phrases.		*Explain the	Numerical on the	Plant -	Learning:	consume	symptoms of	Fitness Test in
Ø justify the title		consequences of	above topics	Production of	YouTube	(MPC).	various	school:
Ø express oneself		Faraday's	Learning Outcomes	Biogas -	video and	4. Define and	disorders	Age group
through writing		experiments. *State	Electrochemistry:	Microbes as	NCERT book	formulate		5-8 yrs/
tasks		Faraday's laws in EMI	Explain the term	Biocontrol	Extract	Average	Differentiate	class 1-3:
		and Lenz's Law.	redox reactions and	Agents and	Entration	Propensity to	between	BMI,
3. Vistas, Prose: Journey		*Apply Lenz's law/	give examples.	as		Save	hallucinations	Flamingo
to the End of the Earth by		Fleming's right-hand	Describe the	Biofertilisers		(APS) and	and delusions	Balance
Tishani Joshi		rule to infer the	construction and	Diolei (ilisei s		Marginal		Test. Plate
· about the author		direction of induced	working of an	Learning		propensity		Tapping
		current to different	electrochemical cell	Outcomes		to save	Differentiate	Test
· the aim of the			(Daniel cell) and	Each student		(MPS).	between	
		circuit configurations.	. ,			\ /		
expedition		*Differentiate between	write the cell	will be able		5. Define	illness anxiety	9-18yrs/
· Antarctica,		self and mutual	reactions and	to-		investment,	and somatic	class 4-12:
the Astronomy for the state		induction. *Derive	representation.	-describe the		autonomous	symptom	BMI, 50mt
the right place to study		mathematically the	Differentiate	role of		investment.	disorder	Speed test,
about the changes in		expressions of self	between electrolytic	lactose in lac		6. Explain the		600mt
the environment		inductance of a long	and	operon	AT CO	determinants	r i i i i i i i i i i i i i i i i i i i	Run/Walk,
	- TAG	solenoid, mutual	electrochemical	-explain why	ALSU	of income in a		Sit & Reach
the need to		inductance of two	cells.	Human		two-sector		flexibility
address	EAST	coaxial solenoids.	Define and explain	Genome	LHI	model		test,
environmental issues		Alternating Current:	measurement of	project is		7.Formulate		Strength
immediately, if		*Differentiate between	electrode potential	called a		the aggregate		Test
mankind is to survive		ac and dc	of an electrode.	mega project		demand and		(Abdominal
		voltage.*Mathematicall	Define emf,	-list the steps		disposable		Partial Curl
Learning Outcome		y derive the equation	standard electrode	of DNA		income of an		Up, Push-
Ø do a comparative study		for mean value and	potential and	fingerprinting		economy.		Ups for
between the lesson		rms value of a c	electrochemical	-explain		8. Explain the		boys,
and The Ailing Planet		voltage /current.	series.	different		determination		Modified
Ø reason out the causes		*Explain behaviour of	Derive Nernst	theories for		of equilibrium		Push-Ups
of the depletion of		resistor, capacitor, and	equation and	origin of life		income in the		for girls)
the earth		inductor to a.c	relation between			short run		
Ø learn about the need to		graphically.	Gibb's energy	-describe		9. Establish		Measurement of
address		*Derive phase relation	change & emf of a	Miller's		macroeconom		Cardio-Vascular
environmental issues		between current and	cell.	experiment		ic equilibrium		Fitness – Harvard
Ø examine the reason		voltage for these.	Solve numerical	for evolution -		with price		Step Test –
why Antartica is the		*Represent the phase	related to standard	mention the		level fixed		Duration of the
perfect place to study		relation between	electrode potential,	theories of		through		Exercise in
about the changes in		current and voltage	electrochemical	evolution and		the graphical		Seconds x
the environment		through phasor	series, Nernst	their		and algebraic		100/5.5 X Pulse
		- 5 F	,	-				

4. Flamingo, Poety: A Roadistic Stand by Robert phase relation between LG and voltage in a LCR in after derregret and crcuit "Correlate 10. Describe Min after derregret and crcuit "Correlate about the poet the lies of poor about the poet the lies of poor the lies of poor the lies of poor application in turing. the fact that "Graphically represent progress and development is current on frequency unequal between the crites and the voltage shed the callous atthude of the agroement is the action atthuff the callous atthude of the agroement on the roadside shed the poet field with sacks the poor the callous atthude of the poor the poor the poor the callous atthude of the poor the callous atthude of the poor the poor the poor the callous atthude of the roh <lithe li="" poor<=""> the poor the po</lithe>							
Readsdia Stand by Robert Frostbetween current and voltage in a LCR circuit. Correlate the lives of poor deprived people of the villagesbetween current and voltage in a LCR circuit. Correlate circuit. Correlate circuit. Correlate circuit. Correlate circuit. Correlate circuit. Correlate the villagesent. conductance, 			diagrams. *Deduce the	equation, relation	evidences -	methods.	count of 1-1.5
Frostvoltage in a LCR about the poet the lives of poor deprived people of the villagesvoltage in a LCR crout and its application in tuning. "Graphically represent development is unequal between the cities and the villagesDefine and fine Ohm's law. Define and the application in tuning. "Graphically represent development is the decthat.Define and fine Ohm's law. evolution - change in a LCR working. Table and its application in tuning. "Graphically represent the dependence of for series LCR circuit. (i) To find the focal length of a convex. length of a convex. le							
 about the poet about the poet the lives of poor deprived people of the lives of poor deprived people of the villages application in tuning, application in tuning,<td></td><td>nt </td><td></td><td>•••••</td><td>5</td><td></td><td>Exercise</td>		nt		•••••	5		Exercise
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the villages application in tuning. conductance, micholay represent income Riki & Jones - Villages the dependence of development is conductivity, molar biological and output. Senior Citizen unequal between the cities and the villages for addeside senior Citizen conductivity, molar biological and output. Senior Citizen owners of a roadside specific conductance in mutation the I. Senior Citizen owners of a roadside for for the coal length of a convex length o							
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5. Flamingo, Prose: equations involved mention the full-turn Indigo by Louis Fischer the respective symptoms, full-turn				5			
Indigo by Louis Fischer at the respective symptoms,							Turn, Jumping
				•			full-turn
Gandhi's role in electrodes. preventive	 Gandhi's role in 			electrodes.	preventive		Learning

 helping the peasants Rajkumar Shukla, the resolute peasant the sharecropping arrangement Gandhi's defiance of the official orders Gandhi.s influence on the lawyers Civil Disobedience triumphs Gandhi's agreement to 25% compensation self -reliance and making of free India Learning Outcome reflect on the historical significance of indigo plantations in India examine the themes of colonialism and resistance. speak about the Champaran Movement and Gandhi's role in helping peasants find out more about the sharecropping agreement draft a character sketch of Rajkumar Shukla comment on Gandhi's influence on the lawyer examine how self- 	TAG EAST	ORE INI OF KAIL	Kinetics: Define and distinguish between average and instantaneous rate. Express rate in terms of reactants and products & Rate law. Explain the dependence of rate on factors like concentration, temperature, volume and catalyst. Distinguish between elementary and complex reactions. Discuss the mechanism of complex reactions. Differentiate between order and molecularity of a reaction. Derive integrated rate equations for zero & first order reaction & solve numerical related to them. Analyses the graphs for determination of the rate constant.	measures and cure of two common diseases - explain the life cycle of malarial parasite in human body -list the four types of barriers in innate immunity - differentiate between innate and acquired immunity as well as active and passive immunity - compare the role of B and T lymphocytes -list three ways of transmission of HIV infection -mention the events which occur in human body to cause immunodefici ency, when	ALSC	HOO	Outcomes Each student will be able to: Understand the importance of flexibility, explosive strength and balance Determine physical fitness Index through Harvard Step Test Compute Basal Metabolic Rate (BMR) Understand the ideal BMI Describe the procedure of Rikli & Jones – Senior Citizen Fitness Test Unit VIII Biomechanics & Sports Newton's Law of Motion & its application in
lawyer			graphs for determination of the	to cause immunodefici			Motion & its

sharecroppers were all bound together .	TAG ORE INT EAST OF KAIL		describe the causes of cancer and its treatment -list the drug types and their effects -name the different types of microbes - explain the role of microbes in household and industrial products - describe the importance of microbes in sewage treatment and in production of biogas - mention the usefulness of microbes as biocontrol agents and as biofertilizers	HOOI		and their application in Sports Equilibrium – Dynamic & Static and Centre of Gravity and its application in sports Friction & Sports Projectile in Sport Learning Outcomes Each student will be able to: Understand Newton's Law of Motion and its application in sports Recognize the concept of Equilibrium and its application in sports Know about the Centre of Gravity and will be able to apply it in sports Define Friction and application in
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Aug 1. Long Writing Skill, Long Writing Skills: Report Writing Topic: Differential Equations Topic: Alternating Current (cont) Topic: Alternating Current (cont) Topic: Alternating Current (cont) Topic: Alternating Current (cont) Data Stubpics: Very Processes Bate Stubpics: Very Processes Data Stubpics: Very Processes RURAL DEVELOPME UNIT 5 THERAFUL Unit X Psychology & Sports 4 Format Learning Outcome equation. Its order and degree Topic: Alternating Current (cont) Topic: Alternating Current (cont) <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>sports Understand the concept of Projectile in sports</th></t<>										sports Understand the concept of Projectile in sports
The second s	Aug	 Writing Skills: Report format content expression word limit marking scheme Learning Outcome Ø differentiate between a magazine and newspaper report Ø speak about the format, style and tone of a letter to the editor Ø suggest expressions and phrases to draft a letter Ø draft a magazine and newspaper reports 2. Flamingo, Prose: Poets and Pancakes by Asokamitran about the writer interpretation of the 	Equations Learning Outcome Each student will be able to *define a differential equation. Its order and degree *form the differential equation whose general solution is given *solve the differential equation using the method of separating variables *define a homogenous differential equation *identify a linear differential equation *solve a linear differential equation (dy/dx +Py=Q Topic: Linear Programming Problem Learning Outcomes:	Current (cont.) Subtopics: Power factor, wattless current , AC generator , Transformer. Topic: Electromagnetic Waves Subtopics: *Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only) *Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses. Topic: Ray Optics Subtopics: *Mirror formula. *Refraction of light *Total internal reflection and optical fibers. *Refraction at spherical surfaces Learning Outcomes:	Ketones and Carboxylic Acids Sub Topics: IUPAC nomenclature and isomerism Methods of preparation (acetaldehyde and acetone) Name reactions (Stephen & Rosenmund reduction) Physical and Chemical properties - Mechanism of nucleophilic addition, addition elimination, reactivity of alpha hydrogen-Aldol condensation Name reactions (Clemmensons reduc, Canninzaro reaction Tests for the functional group- Tollen's & Fehling (oxidation) and	Biotechnolog y: Principles and Processes Subtopics: - Principles of Biotechnolog y -Tools of Recombinant DNA technology - Processes of Recombinant DNA technology Topic: Biotechnolog y and its Applications Subtopics: - Biotechnologi cal Applications in Agriculture - Biotechnologi cal Applications in Medicine	Structure: Stack, operations on stack (push & pop), implementatio n of stack using list. Applications Functions- push, pop, peek, display (11 days) Unit II: Computer Networks • Evolution of Networking: ARPANET, Internet, Interspace Different ways of sending data across the network with reference to switching techniques (Circuit and	DEVELOPME NT Key issues- credit and marketing- role of cooperatives, Agricultural diversification, alternative farming- organic farming Learning outcome: Summarise the key areas of rural development Justify the importance of agricultural diversification List the functions performed by NABARD Analyse the rural banking	THERAPEUTI C APPROACHE S Nature and process of psychotherapy Therapeutic relationship Behaviour Therapy Cognitive Therapy Humanistic- existential Therapy Alternative Therapies Rehabilitation of the Mentally III Learning	Psychology & Sports Personality; its definition & types (Jung Classification & Big Five Theory) Motivation, its type & techniques Exercise Adherence: Reasons, Benefits & Strategies for Enhancing it Meaning, Concept & Types of Aggressions in Sports Psychological Attributes in Sports – Self Esteem, Mental Imagery, Self-

used		Current (cont.)	Nomenclature,	-Ethical	• Data	programmes	nature and	
- characterisation	*define an L.P.P.	*State the principle of	isomerism, acidic	issues	Communicatio	in India	process of	Learning
Communism and	objective function,	working of a c	nature & its	Topic:	n	Define	psychotherapy	Outcomes
MRA	constraints, feasible	generator,	comparison	Organisms	terminologies:	agricultural	poyonothorapy	Catoonioo
Learning Outcome	region, feasible	transformer.	Method of	and	Concept of	marketing	Describe the	Each student will
Ø interpret and justify the	solution	*Interpret	preparation	Populations	Channel,	Describe the	goals of	be able to:
title	30101011	the causes of power	(acetic acid &	Subtopics:	Bandwidth	need for	psychotherapy	be able to.
Ø speak about the	*find the feasible	loss in transformers.	benzoic acid)	-Population	(Hz, KHz,	government	psychotherapy	Classify different
humour used and the	region.	*List the ways of		Attributes	MHz) and	regulation in	Explain	types of
theme of the lesson	region.	reducing the power	Physical and	- Population	Data transfer	agricultural	therapies like	personality and
Ø draft character	*solve an L.P.P using	loss in the transformer.	chemical	Growth	rate (bps,	market	cognitive	their relationship
sketches	Corner point method	Electromagnetic		Glowin		Highlight the	•	
		Waves:* *Differentiate	properties,	Learning	Kbps, Mbps,	benefits and	therapy, humanistic-	with sports
Ø bring out the struggle	Topic:		mechanisms		Gbps, Tbps).		existential	performance
that Ashokmitran	Probability	between conduction	involved. Name	Outcomes	•	limitations of		December 44
went through	Learning Outcome	current and	reaction (HVZ ,	Each student	Transmission	organic	therapy,	Recognise the
Ø comment on	Each child will be able	displacement current.	Kolbe, Boradine	will be able	media:	farming	biomedical	concept of
Communism and the	to	* List at least five	Hunsdiecker), Uses	to: -explain	Twisted pair	VIRONMENT	therapy and	motivation and
role of MRA at the	*define probability,	characteristics of	and tests for the	biotechnolog	cable, coaxial	AND	alternative	identify various
Gemini Studio	random exp, event,	electromagnetic	functional group	y -mention	cable, optical	SUSTAINABL	therapies	types of
	sample space	waves.	Structural	two core	fiber, infrared,	E	Discuss how	motivation
3. Vistas, Prose: The	*recall the fundamental	* Explain transverse	elucidation	techniques	radio link,	DEVELOPME	people with	
Enemy by Pearl S. Buck	principle of addition	nature of em	questions	that enabled	microwave link	NT	mental	Identify various
about the author	and multiplication	waves(qualitatively). *	Topic: Amines	the birth of	and satellite		disorders can	reasons to
the essential worth		Identify the	Sub Topics:	biotechnolog		aning of	be	exercise, its
of human life and		electromagnetic	Introduction,	y -state three	 Network 	environment,	rehabilitated	associated
universal		spectrum in terms of	Nomenclature and	basic steps in	devices:	Effects of		benefits and
brotherhood.		the	Isomerism.	genetically	Modem, RJ45	economic		strategies to
 think beyond 		wavelength/frequency	Methods of	modifying an	connector,	development	UNIT 6:	promote exercise
countries and		* Write at least one	preparation	organism	Ethernet Card,	on resources	Attitude and	adherence
continents and races		use of the components	(Ethanamine and	-list three key	Router,	and	Social	
and wars.		of the spectrum.	Aniline)	tools of	Switch,	environment,	cognition	Differentiate
 oath taken by 		Ray Optics:	Hoffmann	recombinant	Gateway, WiFi	global	Explaining	between different
doctors, saving a		*Apply mirror formula	Ammonolysis.	DNA	card.	warming,	social	types of
person's lifemore		to solve related	Physical and	technology -	 Network 	ozone	behavior	aggression in
important than their		numerical questions.	Chemical	explain the	Topologies	depletion		sports
patriotic feelings		*Draw ray diagram to	properties of	naming and	and types:		Nature and	
· ones role as		show refraction of light	aliphatic and	mechanism	Bus, Star,	Learning	components	Explain various
private		through a compound	aromatic amines	of action of	Tree, PAN,	Outcome	of attitude	psychological
individuals as		plate. *List the factors	(Hoffmann	restriction	LAN, WAN,	1.Appreciate		attributes in
well as citizens		on which lateral	Bromamide)	enzymes -	MAN.	the	Attitude	sports
Learning Outcome		displacement	Hinsberg test for	describe	 Network 	importance	formation -	

		I	1	0	r		1	1
 Ø familiarise themselves with the specific background of political enmity. Ø identify and make connections between similar situations in own life experiences Ø speak about the significance of professional ethics and social obligation in sensitive times. Ø justify the title Ø express themselves through writing tasks Ø improve upon their reading and writing skills Flamingo, Poetry:Aunt Jennifer's Tigers by Adrienne Rich about the poet interpret the title symbolism appreciate poetry - to infer the deeper meaning/message 	TAG	depends. *Explain the phenomenon of TIR. *Differentiate between reflection and TIR. *Apply condition for TIR to draw the path of light through totally reflecting prisms. *Explain the application of TIR in optical fibers. *Draw ray diagram to show refraction of light through a spherical refracting surface. Lab Activity: To find the focal length of a concave lens using a convex lens.	10,20 & 30 amines. Diazonium salts: Benzene Diazonium Chloride- Preparation, Chemical reactions and Importance in synthetic organic chemistry. Related reasoning, application-based questions and interconversions. Learning Outcomes Aldehydes, Ketones & Acids: Name aldehydes, ketones and carboxylic acids according to IUPAC nomenclature. Draw the isomers for a given molecular formulae. Write equations for	biotechnologi cal applications in agriculture -list any four applications of genetically modified plants -name the cry genes that control cotton bollworm and corn borer - explain the process involved in the production of nematode resistant tobacco plants - compare the insulin produced by Eli Lilly and the one	HTTP, SMTP, POP3, Remote Login (Telnet) and Internet, Wireless / Mobile Communicatio n protocol such as GSM, GPRS and WLL. Learning Outcomes Each child will be able to : =>Write codes for stacks - Push, pop, peek, display	of environment in economic development 2.Explain the functions of environment 3.Infer the consequence s of environment being pushed beyond its carrying capacity 4.Evaluate the impact of economic growth on environment 5.Highlight the causes of environment al degradation 6.Highlight the importance of	Factors LEARNING OUTCOMES: Each student will be able to: Explain attitudes Describe how they are formed and changed Analyze how people interpret and explain the behavior of others Explain attitude formation	Unit X Training in Sports Concept of Talent Identification and Talent Development in Sports Introduction to Sports Training Cycle – Micro, Meso, Macro Cycle Types & Method to Develop – Strength, Endurance and Speed Types & Method to Develop – Flexibility and Coordinative Ability
							onungeu	
							Analyze how	
								e yele
			Learning Outcomes					Types & Method
							P	
	F TAG	using a convex lens.					others	
						00		Speed
	EAST	OF KAIL						T 0 1 1 1
						•	iormation	
								7 Willey
· poetic forms and			the preparation of	produced by	peek and	sustainable		Circuit Training -
figures of speech,			preparation of	human body	display stacks	development		Introduction & its
rhyme and rhythm			ethanal, acetone &	-describe the	using lists and			importance
Learning Outcome			ethanoic acid.	gene therapy	dictionaries			
Ø facilitate making			Explain the	procedure for				Learning
connections between			equations for name	ADA deficient	Each child will			Outcomes
similar situations in			reactions (Stephen,	patient	be able to :			Each students '''
different			Rosenmund,	-list four	- Evelois the			Each student will
storylines/life			Clemmenson	ways in	 Explain the evolution of 			be able to:
experiences. Ø empathize with Aunt			reduction, Canninzaro, Aldol	which	evolution of networking			Understand the
Jennifer's problems			condensation, HVZ	transgenic animals can	from			concept of talent
and seek resolution.			& Boradine	be beneficial	ARPANET to			identification and
			a Dordanic	be beneficial				

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 Ø think and produce spontaneous, fluid and expression in poetic texts to convey a social change. Ø discern prevailing inequalities in various guises. Ø develop the ability of appreciation of ideas and criticizing the thinking Ø justify the title Vistas, Prose: On the Face of It by Susan Hill about the author theme of adolescence making connections between similar situations in different storylines/life experiences accepting the reality of life and shedding away stubbornness. accepting responsibility and 	ORE IN OF KAIL	Hunsdiecker reaction). Compare the reactivity of aldehydes and ketones towards nucleophilic addition reactions. Discuss and apply the mechanism for Aldol condensation and reactions involving Grignard reagent. Distinguish between aldehydes and ketones (DNP, Tollen's, Fehling and lodoform test) giving the equations involved. Explain the test for carboxylic group (sodium bicarbonate test, Esterification) and write the equations involved. Compare the acidity of different types of acids. Solve	to humans -explain biopiracy and ethical issues -state three attributes of population - construct age pyramids showing expanding, stable and declining human population -describe the population growth and its factors - explain Verhulst- Pearl Logistic Growth of a population	the Internet and Interspace. •Differentiate between circuit switching and packet switching methods. •Define key data communicatio n terms like channel, bandwidth, and data transfer rate. •Identify and compare various transmission media (wired and wireless). •Explain the function and use of	HOO	[.	methods used for talent development in sports Understand sports training and the different cycle used in the training process Understand different types & methods to develop - strength, endurance, and speed in sports training Understand different types & methods to develop – flexibility and coordinative ability Understand Circuit training and its
theme of adolescence making connections between similar situations in different storylines/life experiences accepting the reality of life and shedding away stubbornness.		Tollen's, Fehling and lodoform test) giving the equations involved. Explain the test for carboxylic group (sodium bicarbonate test, Esterification) and write the equations involved. Compare the acidity of different types of	growth and its factors - explain Verhulst- Pearl Logistic Growth of a	bandwidth, and data transfer rate. •Identify and compare various transmission media (wired and wireless). •Explain the	HOO	L	speed in sports training Understand different types & methods to develop – flexibility and coordinative ability Understand
responsibility and devote one's attention to the expected duties. Learning Outcome Ø bring out the theme Ø justify the title Ø build up optimism and self- confidence. Ø fight out their loneliness,		interconversions and structural elucidation questions related to aldehydes, ketones & carboxylic acids. Amines Classify amines as primary, secondary and tertiary.		use of common network devices (e.g., modem, router, switch). •Recognize different network topologies			and its importance

depression and disappointment. Ø accept the physically challenged people positively in their life and expand their social interaction express themselves through writing tasks	TAG ORE IN EAST OF KAI	Name aliphatic and aromatic Amines according to common and IUPAC nomenclature. Draw the isomers for a given molecular formulae. Write the chemical equations for various methods of preparation of Ethylamine, Aniline and Diazonium salts. Explain the reactions for the chemical properties of amines. Explain name reaction (Hoffmann Ammonolysis & Hoffmann Bromamide reaction). Distinguish between 1 ⁰ , 2 ⁰ & 3 ⁰ amines (Hinsberg test). Discuss the importance of Diazonium salts in the synthesis of a series of aromatic	such as bus, star, and tree. •Distinguish between types of networks: PAN, LAN, MAN, and WAN. •Describe standard communicatio n protocols like TCP/IP, FTP, and HTTP. Explain the purpose of email and remote login protocols (SMTP, POP3, Telnet). Explain mobile and wireless communicatio n protocols like GSM, GPRS, and WLL	
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Sept	 Flamingo, Prose: The Interview by Christopher Silvester about the author theme interview-part 1 interview-part 2 Learning Outcome review and revise sample interview questions. learn about the technique of 'interview' as a new way of interrogating. list down the use of linkers and signallers while conducting an interview give reasons why Umberto Eco likes/does not like being interviewed examine why the novel, The Name of the Rose is a great success, Flamingo, Prose: Going Places by A.R. Barton about the author theme of adolescence making connections between 	Topic: Probability Learning Outcome Each student will be able to *list the various types of events *differentiate btw independent and mutually exclusive events *perceive the concept of reverse probability *learn the Baye's theorem *define a random variable **apply the concept of random variable in finding mean and variance Experiential Learning- *ldentify the role of probability in Casino games * Probability of Patients recovering from Covid 19 in Delhi in August 2020 Activity- students will explain the computation of conditional Probability Revision for Mid term	Topic: Ray Optics (cont.) Subtopics: *Lenses, thin lens formula, lens maker's formula. *Magnification, power of a lens, combination of thin lenses in contact. *Refraction of light through a prism. Learning Outcomes: Each student will be able to: *Draw ray diagram to show refraction of light through a thin lens. *Derive lens maker's formula mathematically. *Mathematically deduce the expression for refractive index of an equilateral glass prism. *Graphically represent the variation of angle of deviation with angle of incidence for a glass prism. *Apply the concepts and formulae logically to solve related conceptual questions and numerical.	Topic: d and f-Block Elements Sub topics: Introduction-d & f block elements, position in periodic table, electronic config, occurrence Characteristics of transition metals. General trends in properties of the first-row transition metals-metallic charac, ionization enthalpy, oxidation state, ionic radii, colour, catalytic property, magnetic properties, interstitial comp, alloy formation. Learning Outcomes Justify the position of d & f block elements in the periodic table. Write electronic configuration & predict the common characteristics of the d and f block elements. Explain the periodic trends in d block elements.	Topic: Organisms and Populations (contd.) Subtopics -Population Interactions Revision for Mid-Term Examination Learning Outcomes Each student will be able to -list any four population interactions and give one example of each differentiate between positive and negative interactions among populations - compare mutualism and commensalis m as well as predation and parasitism justify that	Revision Compilation of record files Learning Outcomes Each child will be able to clarify doubts and solve CBSE papers Flipped Learning- Sample papers	EMPLOYME NT AND UNEMPLOY MENT Growth and changes in workforce participation rate in formal and informal sectors; problema and policies Learning outcomes: 1. Define the terms associate d with population and employme nt 2. Define various types of workers 3. Highlight various trends of employme nt across rural and urban area, across various	UNIT 6: Attitude and Social cognition Attitude formation (process) Attitude change Prejudice and discrimination Strategies for handling Prejudice LEARNING OUTCOMES: Explain process of attitude formation and attitude change and the relationship between attitude and behavior. Define prejudice and discrimination and the	Revision of all the units and concentration on skill development for board practicals
				Gomonto.	justify that		Vallous		

	 similar situations in different storylines/life experiences accepting the realities of life and shedding away stubbornness accept responsibility and devote one's attention to the expected duties. Learning Outcomes Ø list down the differences that show up between Sophie and Jansie in the story Ø describe the character and temperament of Sophie's father Ø answer why Sophie liked her brother Geoff more than any other person draft character sketches 	EAST	ORE INT OF KAIL	ASH, NE	predators act as 'conduits' for energy transfer across trophic levels. -explain why the egrets always forage close to where the cattle are grazing - analyse the adaptive strategies used by organisms in the interactions (e.g., mimicry in prey, hooks in parasites).	ALSC LHI	sectors and gender. 4. Analyse the concept of casualisati on of workforce and imformalis ation of workforce 5. Define unemploy ment 6. Interpret the reasons behind various types of rural and urban unemploy ment 7. Justify the role of governme nt in employme nt generatio n	sources of prejudice State the causes and sources in handling prejudice	
Oct	1. Vistas, Prose: Memories of Childhood by Zitkala - Sa and Bama • the account of Simmons, An	Topic: Vectors Learning Outcome: Each child will be able	Topic: Ray Optics(cont.) Subtopics: *Optical instruments: Microscopes – Simple	Topic:d and f-Block Elements contd Sub topics: General trends in	Topic: Ecosystem Subtopics: - Ecosystem- structure and	Unit II: Computer Networks (6 PERIODS) • Mobile	<u>DEVELOPME</u> <u>NT</u> <u>EXPERIENC</u> <u>ES: INDIA,</u> <u>CHINA,</u>	UNIT 7 Social Influences and Group processes	Revision of all the units and concentration on skill development for board

American Indian	to	and Compound	properties- Colour,	Function -	Telecommunic	PAKISTAN		practicals
	*define a vector	*Astronomical	magnetic	Productivity -	ation	A comparison	Nature and	
 the autobiography 	differentiate btw	telescopes (reflecting	properties,	Decompositio	Technologies:	with	formation	
'Karukku' by Bama -	*vector and scalar	and refracting)	interstitial comp,	n -Energy	1G, 2G, 3G,	neighbours-	of groups	
a Tamil Dalit	list the various types of	Topic: Dual Nature of	alloy formation.	Flow -	4G and 5G;	China and		
 reflecting childhood 	vectors	Radiation and Matter	Preparation &	Ecological	Mobile	Pakistan;	Type of	
memories	*differentiate btw	Subtopics:	properties of	Pyramids	processors;	lssues-	groups	
Learning Outcome	direction cosines/ratios	*Photoelectric effect,	KMnO4 & K2Cr2O7.	Topic:	Electronic mail	Economic		
Ø find out the	*define scalar product	Hertz & Lenard's	Structures of their	Biodiversity	protocols such	growth,	Group think	
commonality of	of vectors	experimental set up	ions	and	as SMTP,	population,		
theme found in the	*apply the scalar	and observations	Lanthanoids &	Conservation	POP3,	sectoral	Group	
two distant cultures	product concept in	*Einstein photoelectric	Actinoids:	Subtopics:	Protocols for	development,	polarization	
in the account	solving questions	equation, particle	Configuration,	-Biodiversity	Chat and	and human		
Ø examine how injustice	*define vector product	nature of light. *De	Oxidation state,	-Biodiversity	Video	development	Social Loafing	
in any form cannot	of vectors	Broglie's wave	chemical reactivity	conservation	Conferencing:	indicators		
escape being noticed	*apply the vector	equation and	Lanthanoid		VoIP, Wireless		Each student	
even by children 🛛 📐	* product concept in	hypothesis.	contraction & its	Learning	technologies	Learning	will be able to:	
Ø comment on Bama's	solving problems	Topic: Electronic	consequences.	Outcomes	such as Wi-Fi	Outcomes:		
experience as a	*evaluate the	Devices Subtopics:	Comparison	Each student	and WiMax	Analyse	Explain the	
victim of the caste	projection of a vector	*Energy bands in	between	will be able	 Network 	China's road	nature and	
system.	on another vector	conductors,	lanthanoids and	to: -describe	Security	to becomean	types	
speak about the kind of	*find scalar triple	semiconductors, and	actinoids.	the	Concepts:	industrial	of groups and	
discrimination that Zitkala-	product of given	insulators (qualitative	Topic:Coordination	components	Threats and	superpower	know how	
Sa experiences	vectors.	ideas only)	Compounds	of ecosystem	prevention	Relate	they	
	Topic: Three	*Intrinsic and extrinsic	Sub Topics:	-mention any	from Viruses,	China's	are formed .	
	Dimensional Geometry	semiconductors- p and	Introduction to the	two reasons	Worms, Trojan	policies with		
	*recall the concept of	n type, p-n junction.	coordination	why the	horse, Spams	INdia's	Describe the	
	3-D	*Semiconductor diode	compounds (terms-	primary	Use of	industrial	influence of	
	*list the various forms	- I-V characteristics in	ligand, central	productivity	Cookies,	policies	group	
	of line	forward and reverse	atom/ion,	varies in	Protection	Distinguish	on individual	
	*apply the various	bias	coordination	different	using Firewall,	between	behavior.	
	equations of line in	*Application of	sphere,	types of	https; India IT	India's and		
	solving problems	junction diode -diode	coordination entity,	ecosystems -	Act, Cyber	Pakistan's		
	*define skew lines	as a rectifier.	counter ion,	differentiate	Law, Cyber	policy of		
	*calculate the distance	Learning Outcomes:	oxidation state &	between net	Crimes, IPR	nationalisatio		
	btw two lines-skew and	Each student will be	coordination no &	primary	issues,	n to boost		
	parallel lines	able to :	their calculation)	productivity	hacking.	economic		
	Topic: Relation and	Ray Optics:	IUPAC	and gross	 Introduction 	growth		
	Function	*Draw ray diagrams to	nomenclature of	primary	To Web	Draw parallels		
		show image formation	mononuclear	productivity -	services:	between the		
	Learning Outcomes:	by a simple and	Compounds	explain	WWW, Hyper	demographic		

अहम् राठ्य: अस्मि	*recall the definition of a function and relation *list the various types of relations *prove a relation to be an equivalence relation *evaluate the domain / range of given functions *perceive the concept of composite functions *evaluate the inverse of a function Art Integration: Various forms of functions Dancing Math	compound microscope, astronomical telescope. *Deduce mathematically the expression for the magnifying power of the optical instruments. *Compare and contrast reflecting telescope over refracting telescope. *Apply the concepts and formulae logically to solve related conceptual questions and numerical. Dual Nature of Radiation and Matter: *List the various methods of electron emission and define them. *Explain the various observations made by Hertz and Lenard experiments. *Graphically represent the conclusions from experimental set up on photoelectric effect. *State Einstein's laws of photoelectric emission *Conclude that wave nature cannot explain photo electric effect. *Correlate with radiation's dual nature	Isomerism (structural & stereo- isomerism) Bonding: Werner's theory VBT (Hybridisation & Geometry of complexes) CFT- Properties (magnetic behavior and color) Importance of coordination compounds (in qualitative inclusion, extraction of metals & biological Learning Outcomes d and f block elements Discuss the consequences of f- block elements w.r.t lanthanide contraction. Discuss the methods of preparation and chemical properties of KMnO4 & K ₂ Cr ₂ O ₇ by writing the reactions involved. Draw and explain the structures of manganate and dichromate ions involved. Give a comparative	decompositio n of detritus by different agents which is then made available as nutrients to the plants - mention one example each of a detritivore and a decomposer -list three parameters used for constructing ecological pyramid - construct pyramids of numbers, biomass and energy - compare two different types of pyramids of biomass with the help of an example - mention three important components of biodiversity - explain the importance of biodiversity	Text Markup Language (HTML), Extensible Markup Language (XML); Hyper Text Transfer Protocol (HTTP); Domain Names; URL; Website, Web browser, Web Servers; Web Hosting REVISION FOR MID TERM EXAM (14 days) Learning Outcomes Each child will be able to: State the differences among different Telecom Technologies Differentiate among various network protocols Identify various security measures	indicators for India, China and kistan <u>ANCE OF PAYMENT AND FOREIGN EXCHANGE</u> P A/C- meaning and components P- surplus and deficits eign exchange rate- meaning and types ermination of flexible exchange rate naged Floating Exchange rate system rate system rat		
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अटम रोठरा अस्मि	and infer that Matter possesses dual nature. Electronic Devices: *Differentiate between conductors, insulators, and semiconductors on the basis of conductivity and energy band diagram. *Explain the formation of p type and n type semiconductors and pn junction diode. *Draw circuit diagrams for characteristics of diode and graphically represent the variation of I with V. *Draw circuit diagram and explain working of a diode as a rectifier.	account of the lanthanoids and actinoids with respect to their electronic configurations, oxidation states and chemical behaviour. Coordination Compounds Explain the terms related to complexes. Name mononuclear coordination compounds according to IUPAC. Define different types of structural and stereo- isomerism in coordination compounds. Discuss the nature of bonding in coordination compounds in terms of Werner's theory, VBT & CFT. Differentiate between 1° and 2° valency. Explain the formation of high spin and low spin complexes. Explain the hybridisation of the central metal atom/ion in	for ecosystem functioning - state two effects of loss of biodiversity in a region - describe the causes of biodiversity loss -give reason as to why biodiversity should be conserved - differentiate between in situ and ex situ conservation of biodiversity.	used on computer network. Identify different Network Models Differentiate among different telecom technologies Differentiate among different telecom technologies Differentiate among different generations of mobile telecom Define various terms related to Web services Differentiate between XML and HTML	ng transations Explain the causes behind disequilibrium in BOP A/C Define foreign exchange market Define fixed, floating and managed exchange rate		
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	अहम् रोठराः	TAG EAST	ORE IN OF KAIL	complexes based on magnetic properties. List the limitations of Werner's theory and VBT. Draw crystal field splitting patterns for tetrahedral and octahedral complexes. Explain the properties of complex compounds-colour, type of complex etc using CFT. Discuss the importance and applications of coordination compounds in daily life.	FION W DE	AL SC LHI	HOO		
Nov	Revision Test	Revision Test	Topic: Atoms and Nuclei Subtopics: *Alpha- particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom *Expression for radius of nth possible orbit, velocity, and energy of electron in his orbit, of hydrogen line spectra (qualitative treatment only) *Composition and size of nucleus, nuclear force	Revision Test	Revision Test	Revision Test	Revision Test	Revision Test	Revision Test

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	अहम् रोठराः अस्मि	TAG EAST	*Draw energy level diagram for hydrogen atom. *Write the equation for mass energy relation and mass defect. *Differentiate between nuclear fission and fusion. Wave Optics: *Draw the reflecting and refracting wavefronts using Huygen's principle. *Differentiate between coherent and incoherent sources. *Infer the conditions for sustained interference. *Draw the intensity versus path difference graph for Young's Double Slit experiment. *Mathematically derive equation for path difference for constructive and destructive interference. Revision Revision Test	TERNA ASH, NE	W DE	LHI			
Dec	Pre-Board Examination	Pre-Board Examination	Pre-Board Examination	Pre-Board Examination	Pre-Board Examination	Pre-Board Examination	Pre-Board Examination	Pre-Board Examination	Pre-Board Examination

<mark>Jan</mark>	Pre-Board Examination	Pre-Board Examination	Pre-Board Examination	Pre-Board Examination	Pre-Board Examination	Pre-Board Examination	Pre-Board Examination	Pre-Board Examination	Pre-Board Examination
Feb	Revision Board Examination	Revision Board Examination	Revision Board Examination	Revision Board Examination	Revision Board Examination	Revision Board Examination	Revision Board Examination	Revision Board Examination	Revision Board Examination

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