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# RADHA GOVNID PUBLIC SCHOOL

Anuyogipuram , Garh Road, Meerut

CLASS - XII

SYLLABUS : SESSION 2021-22

CLASS NAME - ALEXANDRITE

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Admn.NO: \_\_\_\_\_

Phone No: \_\_\_\_\_



**LEARN**

*“Optimism is the faith that leads to achievements. Nothing can be done without hope and confidence”*

*Note: Kindly preserve this syllabus in the student's personal file for the entire session 2021-22. In case it is lost or destroyed a duplicate copy will be available for Rs.30/-.*

**ENGLISH CORE (Code -301)**

Name of the Book		Publisher	
Flamingo Vistas Compacta Basic English		NCERT BBC Publication	
Months		Section	Chapter
March & April		Reading Skills Writing Skills & Grammar Flamingo (Prose) Poetry Vistas	Reading Passages, Note Making, Summarising-3
			Advertisement , Notices, Tenses
			1. The Last Lesson
			1. My Mother At Sixty Six
			1. The Third Level
		Reading Skills Writing Skills & Grammar Flamingo (Prose) Poetry Vistas	Comprehension Passages-2
			Posters, Invitations- Informal ,Passive Voice, Determiners
			2 Lost Spring
			2 An Elementary School
			2 The Tiger King
			2 Journey to the end of the earth
May & June	PA- I Examination	Reading Skills Writing Skills & Grammar Flamingo (Prose) Poetry Vistas	Comprehension Passages
			Letters to Editor, Application for a Job.
			3 Deep water
			3 Keeping Quiet
			4 A Thing of Beauty
			4 The Enemy
July		Reading Skills Writing Skills & Grammar Flamingo (Prose) Poetry Vistas	Comprehension Passage
			Business/Official Letters
			4 The Rat Trap
			5 Indigo
			5 Should Wizard Hit Mommy
			6 On the Face of IT
August		Reading Skills Writing Skills & Grammar Flamingo (Prose) Poetry Vistas	Comprehension Passages -2
			Business/Official Letters
			Modals
			6 Poets and Pancakes
			7 The interview
			5 A Roadside Stand
			7 Memories of Childhood
September	Half Yearly Examination		Revision
October		Reading Skills Writing Skills & Grammar Flamingo (Prose) Poetry Vistas	Comprehension Passage - 2
			Revisionary Samples Revision
			8 Going Places
			8 Aunt Jennifers Tigers
			8 Evans Tries an O-Level
November	PA- III Examination		Revision
December	Pre-Board - I Examination		
January	Pre-Board - II Examination		

## HINDI CORE (Code -302)

Name of the Book		Publisher	
आरोह भाग - II वितान भाग - II अभिव्यक्ति भाग और मध्यम व्याकरण - अ		NCERT Saraswati	
Months	Specification	Section	Chapter
मार्च		पठन कौशल लेखन कौशल व्याकरण आरोह गद्य काव्य	*एक गीत, *कविता के बहाने, *भक्तिन *सिल्वर वैडिंग अपठित अंश औपचारिक पत्र (सरकारी, गैरसरकारी)
अप्रैल		पठन कौशल लेखन कौशल व्याकरण आरोह गद्य वितान	*कैमरे में बंद अपाहिज, *सहर्ष स्वीकार हैं *बाजार दर्शन, *काले मेघा पानी दे रचनात्मक लेखन अपठित अंश
मई	PA - I Examination	पठन कौशल लेखन कौशल व्याकरण आरोह गद्य वितान	*उषा, *बात सीधी थी पर, *पहलवान की ढोलक, *जूझ कविता/कहानी/नाटक
जुलाई		पठन कौशल लेखन कौशल व्याकरण आरोह गद्य काव्य	*आत्म परिचय, *पतंग, *नमक समाचार लेखन
अगस्त		पठन कौशल लेखन कौशल व्याकरण आरोह गद्य काव्य वितान	*कवितवली, *लक्ष्मण मूर्छा और राम का विलाप, *चार्ली चैप्लिन यानि हम सब आलेख लेखन
सितम्बर	Half Yearly Examination	पठन कौशल लेखन कौशल व्याकरण आरोह गद्य काव्य	*बादल राग, *छोटा मेरा खेल, *बगुलो के पंख, *शिरिष के फूल, *अतीत के दबे पाँव
अक्टूबर		पठन कौशल लेखन कौशल व्याकरण आरोह गद्य काव्य	*रूबाइयाँ, *गजल, *श्रम विभाजन और जाति प्रथा *मेरी कल्पना का आदर्श समाज, *डायरी के पन्ने
नवम्बर	Revision		
दिसम्बर	प्री-बोर्ड - I परीक्षा		
जनवरी	प्री-बोर्ड - II परीक्षा		

## MATHS (Code -041)

Name of the Book		Publisher	
Mathematics Text Book I & II		NCERT	
Months	P.A	Chapter	Practical/Activity
March & April		Ch.1 Relation and function Ch.5 Continuity and Differentiability Ch.6 Application of Derivatives	1. To Demonstrate a function which is not one -one but is onto. 2. To Demonstrate a function which is one -one but is not onto
May & June	P.A - I Examination	Ch.2 Inverse trigonometric function Ch.3 Matrices	3. To draw the graph of $\sin X$ , using the graph of $\sin X$ and demonstrate the concept of mirror reflection. 4. To explore the principle value of the function $\sin X$ using A unit circle.
July		Ch.4 Determinants Ch.7 Integrals	5. To verify Rolle's Theorem 6. To verify Lagrange's Mean Value Theorem.

August		Ch.8 Application of Integrals Ch.9 Different equation.	7. To understand the concept of decreasing and Increasing function. 8. To verify that amongst all the rect. Angles of the same.
September	Half Yearly Examination	Ch.10 Vector Algebra Ch.11 Three D Geometry	9. To verify that angle in a semi circle is a right angle using Vector Method. 10. To Demonstrate the equation of a Plane in normal form.
October		Ch.12 Linear programming Ch 13. probability	11. To verify that the angle between Two Planes are the same as the angle between their normals.
November	PA-III Examination		Revision
December	Pre-Board - I Examination		
January	Pre-Board - II Examination		

## PHYSICS (Code -042)

Name of the Book		Publisher	
PART - I PART - II MANUAL	LAB	NCERT Publication	Laxmi
Months		Chapter	Practical & Activity
March & April		Ch 1 Electric Charges and Fields  Ch 2 Electrostatic Potential and Capacitance	1. To determine resistance per cm of a given wire by plotting a graph for potential difference versus current. 1 A.(Activity) To measure the resistance and impedance of an inductor with or without iron core 2. To find the focal length of a concave lens, using a conve lens.
May & June	PA-I Examination	Ch 3 Current Electricity Ch 4 Moving Charges and Magnetism	3. To find resistance of a given wire using metre bridge and hence determine the resistivity (Specific resistance of its materic 2 A.(Activity) To measure the resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter. 4. To determine angle of minimum deviation for a given pris by plotting a graph between angle of incidence and angle of deviation
July		Ch 5 Magnetism and Matter Ch 6 Electromagnetic Induction	5. To verify the laws of combination (series) of resistance using a metre bridge 3 A (Activity). To study the radiation in potential drop with length of a wire for a steady current. 6. To draw the I.V characteristic curve for a p-n junction in forward bias and reverse bias.
August	Half Yearly Examination	Ch 7 Alternating Current  Ch 8 Electromagnetic waves Ch 9 Ray optics and optical Instruments	7. To verify the laws of combination (parallel) of resistances using a metre bridge 4 A (Activity). To draw the diagram of a given open circuit comprising at least a battery, resistor/ rheostat, key, ammeter and coltmeter. 8. To draw the characteristic curve of a zener diode and determine its reverse breaks down voltage.
September		Ch 10 wave optics  Ch 11 Dual nature of radition and matter	9. To compare the EMF of two given primary cells using potentiometer 10. To determine the internal resistance of given primary cell using potentiometer. 3B (Activity). To observe polarization of light using two Polaroid.

October		Ch 12 Atoms  Ch 13 Nuclei	11. To find the frequency of AC mains with a sonometer 1 B(Activity). To obtain a lense combination with the specified focal length by using two lense from the given set of lenses. 4B (Activity). To observe diffraction of light due to a thin slit.
November	PA-III Examination	Ch 14 Semiconductor Electronics: Materials, Devices and Simple circuits	12. To Find the value of v for different of u in case of a con mirror and to find the focal length. 2 B(Activity). To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items. 5B(Activity). To study the nature and size of the image formed by a i) convex lens, ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror)
	Revision		
December	Pre - Board I Examination		
January 2022	Pre - Board II Examination		

## Chemistry (Code -043)

Name of the Book		Publisher	
PART - I PART - II MANUAL	LAB	NCERT Publication	Laxmi
Months		Chapter	Practical
March & April		Ch 1 The Solid State	1. Titration- Mohr salt
		Ch 2 Solutions	2. Salt Analysis - "O" group
		Ch 4 Chemical Kinetics	3. Titration - mohar salt
May & June	PA-I Examination	Ch 3 Electrochemistry	4. Salt Analysis - "I" group
		Ch 5 Surface chemistry	5. Salt Analysis - "II" group
July		Ch 6 General principles	6. Function group - Alcohol
		Ch 7 p-block elements	7. Titration - Oxalic acid
		Ch 8 d and f block elements	8. Salt Analysis - IIIrd group
August		Ch 9 coordination compounds	9. Titration - Oxalic Acid
		Ch 10 Haloalkanes and Haloarenes	10. Salt Analysis - "IV" group
September	Half Yearly Examination	Ch 11 Alcohols, phenols and Ethers	11. Function group - Phenol
		Ch 12 Aldehydes, Ketones & carboxylic acids	12. Salt Analysis - "V" group
October		Ch 13 Amines	13. Functional group -Carboxylic acid
		Ch 14 Biomolecules	14. Salt analysis - "VI" group
November	PA-III Examination	Ch 15 Polymers	15. Functional group - aldehyde
		Ch 16 Chemistry in everyday life	16. Functional group - Ketone
December	Pre - Board I Examination		
January 2022	Pre - Board II Examination		

## Biology (Code -044)

Name of the Book		Publisher	
BIOLOGY TEXT BOOK LAB MANUAL		NCERT Laxmi Publication	
Months		Chapter	Practical
March & April		Unit VI Reproduction	Practicals- 1. To study and identify the stages of gamete development in mammal i.e T.S of testes and ovary.  2- To study T.S of blastula through permanent slide.
		Ch 1 Reproduction in organism	
		Ch 2 Sexual reproduction in flowering plants	
		Ch 3 Human Reproduction	Practical 3- To study pollen germination on a slide.  4-Collect soil from at least two different sites and study them for texture content of soil.
May & June	PA-I Examination	Ch 4 Reproductin health	
		Unit VII Genetics & Evolution	
		CH 5 Principles of Inheritance & Variation	

July		Ch 6 Molecular basis of inheritance Ch 7 Evolution Unit VIII- Biology in Human welfare Ch 8 Human Health & disease	Practical 5- Collect soil from at least two different sites and study water holding capacity of soil.  6- Collect soil from at least two different sites and study them for moisture content of soil.  7- Collect soil from at least two different sites to study them for pH.
August		Ch 9 Strategies for enhancement in food production Ch 10 Microbes in Human welfare	Practical 8-To isolate DNA from the given plant material ( banana, tomato, orange juice) 9-To study meiosis in onion bud cells through permanent slide. 10- Collect water from two different water bodies around you and study them for pH.
September	Half Yearly Examination	Unit IX - Biotechnology Ch 11 Biotechnology - Principles & processes Ch 12 Biotechnology & its Application	Practical 11- To study the prepared pedigree charts of genetic traits such as rolling of tongue, blood grps,widow 's peak, colour blindness.  12- To isolate DNA from the given plant material ( banana, tomato, orange juice)
October		Unit X Ecology Ch 13 Organisms & Populations Ch 14 Ecosystem	Practical 13- To study the action of salivary amylase on starch.  14- To identify common disease causing organisms like ascaris, entamoeba, plasmodium, ringworm through permanent slide.  15-Study two plants and two animals found in xerophytic condition.comment upon their adaptations/morphological features.
November	PA-III Examination	Ch 15 Biodiversity & its conservation Ch 16 Environmental Issues	Practical 16- Study two plants and two animals found in aquatic conditions. Comment upon their adaptations/morphological features.  17. Flower adapted to pollination by different agencies( wind,insects, birds)
December			18. Study the plant population density by quadrate method. 19-Study the plant population frequency by quadrate method. 20- Study the presence of suspended puticulate matter in air at two widely different sides 21-Mandelian inheritance using seeds of different color/ size of any plant
	Pre- Board - I Examination		
January 2022	Pre- Board - II Examination		

## Painting (Code -049)

Name of the Book		Publisher	
An Introduction to Indian Art Part II		NCERT	
Months		Chapter	Practical
March & April		Rajasthani School of Painting	* Still life object :-Study of two or three geometrical forms in pencil with light shade a fixed point of view. *
		Pahari School of Painting	Landscape: landscape are work of art the feature scenes of nature: Mountain, lakes, Garden, Rivers etc
May & June	PA-I Examination	The Mughal School of Art	* Still life object :-Study of two or three geometrical forms in pencil with light shade a fixed point of view.

July		The Deccan School of Art	* Composition : composition any of the following five subject in any medium of our choice on a drawing paper of half imperial size. * Still life object :-Study of two or three geometrical forms in pencil with light shade a fixed point of view.
August		The Bengal School of Art Revision	* Composition : composition any of the following five subject in any medium of our choice on a drawing paper of half imperial size. * Still life object :-Study of two or three geometrical forms in pencil with light shade a fixed point of view.
September	Half Yearly Examination	The Modern Trend in Indian Art	* Composition : composition any of the following five subject in any medium of our choice on a drawing paper of half imperial size. * Landscape: landscape are work of art the feature scenes of nature: Mountain,lakes,Garden, Rivers etc
October		Revision of PA -I, II, and Half Yearly	* Landscape: landscape are work of art the feature scenes of nature: Mountain,lakes,Garden, Rivers etc Canvas (Mythology)
November	PA-III Examination		* Composition : composition any of the following five subject in any medium of our choice on a drawing paper of half imperial size.
	Revision		
December 2021	Pre-Board -I Examination		
January 2022	Pre-Board -II Examination		

## Physical Education (Code -048)

Name of the Book		Publisher	
Physical & Healthy Education		NCERT	
Months		Chapter	Practical
March & April		Planning in Sports	Volleyball, Khokho
		Sports & Nutrition	
May & June	PA- I Examination	Yoga & Life Style	Yogic Practice
July		Phy. Edu and sports for CWSN (Children with special needs) Children and Women in Sports	Basketball, Cricket
August		Test & Measurement in Sports	AAHPER, Barrow test, Karus Weber Test
September	Half Yearly Examination	Physiology & Injuries in Sports	
October		Biomechanics & Sports	Hand Ball
		Psychology & Sports	
November	PA-III Examination	Training in Sports	Kabadhi
December 2021		Revision	AAHPER, Barrow test, Karus Weber Test
	Pre-Board -I Examination		
January 2022	Pre-Board -II Examination		

## Hindustani Music Vocal (034)

Name of the Book		Publisher	
Sangeet Manjusha		New Saraswati House	
Months		Chapter	Practical
March & April		Unit -1 Brief Study of the following Alankar, Varna, Kan, Meend, Khatka, Murki, Gamak, Sadra, Dadra, Gram, Murchhana Slap, Tana,	Ragas- Detail Study of Raga Bhairav
May & June	PA- I Examination	Unit -2 One Swar malika and Lakshangeet in Prescribed Ragas Detail study of Ratnakar, Life Sketch of Faiyaz Khan	Ragas- Detail Study of Raga Bageshree
July		Unit -3 Reetaino of Thekas of Jhaptal, RupakTal, Study of various parts of tuning of tanpura.	Ragas-Detail Study of Raga Malkauns
August		Unit-4 Lifesketch of Bdegulam ali khan, Krishan Rao Shankar Pandit, Abdul Karim Khan, Historical Development of Time Theory of Ragas.	
September	Half Yearly Examination	Unit -5 Reetaino of Thekas of Tilwada Tal, DhamarTal	
October		Unit-6 Classification of Ragas-Ancient , Medieval and Modern,	Ragas- Detail Study of Raga Shudh Sarang
November	PA-III Examination		Revision
December	Pre-Board - I Examination		
January 2022	Pre-Board -II Examination		

## IP(065)

Name of the Book		Publisher	
Informatics Practices		CBSE	CBSE
Months	P.A	Chapter	Practical/Activities
March & April		Unit 2 : Database query using SQL	Project-1
		Unit 3 : Introduction to Computer Networks	Create a presentation on any one of the given topics:- 1. Networking Devices 2. Network Topologies
May & June	P.A. - 1 Examination Unit - 1,2		
July		Unit 1 : Data handling using Pandas and Data visualization - II (Cont.)	Project work- 1
August		Unit 1 : Data handling using Pandas and Data visualization - II	Take data of your interest from an open source (e.g. data.gov.in), aggregate and summarize it. Then plot it using different plotting functions of the Matplotlib library.
September	Half Yearly Examination Unit - 1,2	Unit 1 : Data handling using Pandas and Data visualization - II (Cont.)	Project work- 2
October		Unit 4 : Societal Impacts	Create a poster on "E-waste Management".
November	P.A. -III Examination Unit - 1,2,3		Revision
December	Pre-Board - I Examination		
January	Pre-Board -II Examination		