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RADHA GOVIND PUBLIC SCHOOL

Anuyogipuram , Garh Road, Meerut

CLASS - XII SYLLABUS : SESSION 2022-23 STREAM - SCIENCE

Name: _____

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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 2022-23. 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		N.C.E.R.T	
Months		Section	Chapter
March & April		Reading Skills Writing Skills & Flamingo (Prose) Poetry Vistas	Reading Passages, Case Based Passage Advertisement , Notices 1. The Last Lesson 1. My Mother At Sixty Six 1. The Third Level
		Reading Skills Writing Skills & Flamingo (Prose) Poetry Vistas	Comprehension Passages-2 Posters, Invitations- Informal Voice, Determiners 2 Lost Spring The Enemy Poem: keeping quiet
May & June	PA- I Examination	Reading Skills Writing Skills & Flamingo (Prose) Poetry Vistas	Comprehension Passages Letters to Editor Application for A Job 3 Deep water The Tiger King A Thing of Beauty
July		Reading Skills Writing Skills & Grammar Flamingo (Prose) Poetry Vistas	Comprehension Passage Business/Official Letters Deep Water Journey to the End of the Earth
August		Reading Skills Writing Skills & Grammar Flamingo (Prose) Poetry Vistas	Comprehension Passages -2 Business/Official Letters/Invitation The Rattrap 6 Poets and Pancakes 5 A Roadside Stand Indigo
September	Half Yearly Exam		On the Face of IT
October		Reading Skills Writing Skills & Grammar Flamingo (Prose) Poetry Vistas	Comprehension Passage - 2 Revisionary Samples Revision Poet and Pan cakes Interview 8 Aunt Jennifers Tigers Memories of Childhood
November			Going Places + Revision
December			Pre-Board - I
January			Pre-Board - II

HINDI CORE (Code -302)

Name of the Book		Publisher	
आरोह भाग -2 वितान भाग-2 अभिव्यक्ति और माध्यम			
Months	Specification	Section	Chapter
मार्च त अक्टूबर		पठन कौशल लेखन कौशल व्याकरण आरोह गद्य काव्य	आत्म परिचय, पतंग, समाचार लेखन सिल्वर वैडिंग अपठित अंश औपचारिक पत्र (सरकारी, अर्द्धसरकारी)

		पठन कौशल लेखन कौशल व्याकरण आरोह गद्य काव्य वितान	कैमरे में बंद अपाहिज बाजार दर्शन, काले मेढा पानी दे रचनात्मक लेखन अपठित अंश
मई व जून	PA-I Examination	पठन कौशल लेखन कौशल व्याकरण आरोह गद्य काव्य वितान	उषा, बात सीधी थी पर पड़लवान 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	कवितावली, लक्ष्मण मूर्च्छा और राम का विलाप, आलेख लेखन
सितंबर	Half Yearly Examination	पठन कौशल लेखन कौशल व्याकरण आरोह गद्य काव्य	बादल राग, छोटा मेरा खेत, बगुलो के पंख, शिरिष के फूल, अतीत के दबे पाँव
अक्टूबर		पठन कौशल लेखन कौशल व्याकरण आरोह गद्य काव्य वितान	रूबाइयाँ, ऊषा, श्रम विभाजन और जाति प्रथा मेरी कल्पना का आदर्श समाज डायरी के पन्ने
नवम्बर			पुनः अभ्यास संपूर्ण पाठ्यक्रम
दिसंबर			Pre-Board - I पुनः अभ्यास
जनवरी			Pre-Board - II

MATHS (Code -041)

Name of the Book		Publisher	
NCERT		NCERT	
Months	PA	Chapter	Activities
March & April		1.Relation and Function	1. To verify that the relation R in the set L of all lines in a plane.
		2 .Inverse Trigonometric Functions	2. To draw the graph of $\sin^{-1}()$, using the graph of $\sin x$.
		3.Matrices	3. To demonstrate a function which is one - one and onto.
		4.Determinants	4. To demonstrate a function which is neither one - one nor onto.
May & June	PA-I Examination	5.Continuity	5. To find the analytically the limit of a function $f(x)$ at $x = c$ and also to check the continuity of the function at that point.
		6.Applications of Derivatives	6. To understand the concept of decreasing and increasing functions.
		5.Differentiability	7. To understand the concept of local maxima, local minima and point of inflexion.
July		7. Integrals	8. To evaluate the definite integral as the limit of a sum and verify it by actual integration.
		8.Applications of the Integrals	9. To verify that angle in a semi circle is a right angle, using vector method.
August		9.Differential Equations 10.Vectors	10. To measure the shortest distance between two skew lines and verify it analytically.

Spetember	Half Yearly Examination	11.Three - dimensional Geometry	11. To locate the points to given coordinates in space, measure the distance between two points in space.
October		12. Linear Programming 13.Probability	12. To explain the computation of conditional probability of a given event A, when event B has already occurred.
November	Revision		
December	Pre-Board -I		
January	Pre-Board -II		
PHYSICS (Code -042)			
Name of the Book		Publisher	
NCERT			
Months		Chapter	Practical & Activity
March & April		Ch 1 Electric Charges and Fields	
		Ch 2 Electrostatic Potential and Capacitance	
May & June	PA-I Examination	Ch 3 Current Electricity	1. To determine resistance per cm of a given wire by plotting a graphe for potential difference versus current. 1 A. 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.
		Ch 4 Moving Charge and Magnetism 5 Magnetism and Matter	3. To find resistance of a given wire using metre bridge and hence determine the resistivity (Spesific resistance of its materic 2 A. 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 6 Electromagnetic Induction Ch 7 Alternating Current	5. To verify the laws of combination (series) of resistance using a metre bridge 3 A. To study the rariation in potential drop with length of a wire for a steady curretn. 6. To draw the I.V characteristic curve for a p-n junction in forword bias and reverse bias.
August		Ch 8 Electromagnetic waves Ch 9 Rayoptics and optical Instruments	7. To verify the laws of combintaion (parallel) of resistances using a metre bridge 4 A. To draw the diagram of a given open circuit comprising at least a battery, resistor/ rheostat, key, ammeter and coltmeter. 8. To determine refractive index of glass slab using a travelling microscope.
September	Half Yearly Examination	Ch 10 wave optics	9. To compare the EMF of two given primary cells using potentiometre 10. To determine the internal resistance of given primary cell using potentiometer. 3B. To observe polarization of light using two Polaroid.
October		Ch 11 Dual nature of radition and matter Atoms Ch 12 Ch 13 Nuclei	11. To find the frequency of AC mains with a sonometer 1 B. To obtain a lense combination with the specified focal length by using two lense from the given set of lenses. 4B. To observe diffraction of light due to a thin slit.

November		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. To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items. 5B. 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)
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December	Pre-Board-I		
January	Pre-Board-II		

Chemistry (Code -043)

Name of the Book		Publisher	
NCERT			
Months		Chapter	Practical
March & April		Ch 1 Solutions	1. Titration- Mohr salt 2. Salt Analysis - "O" group 3. Titration - Mohr salt
		Ch 2 Electrochemistry	4. Salt Analysis - "I" group, Surface Chemistry
		Ch 3 Chemical Kinetics	5. Salt Analysis - "II" group
May & June	PA- I Examination	Ch 4 "d" block elements	6. Function group - Alcohol
		Ch 5 Coordination complexes	7. Titration - Oxalic acid 8. Salt Analysis - IIIrd group
July		Ch 6 Haloalkanes & Haloarenes	9. Titration - Oxalic Acid, Electro Chemistry 10. Salt Analysis - "IV" group
		Ch 7 Alcohols, phenols & Ethers	11. Function group - Phenol, Preparation of the double salt 12. Salt Analysis - "V" group
October		Ch 8 Aldehydes, Ketones & carboxylic acids	13. Functional group -Carboxylic acid 14. Salt analysis - "VI" group
		Ch 9 Organic Compounds Containing nitrogen	15. Functional group - aldehyde, Crystallisation
November		Ch 10 Biomolecules	16. Functional group - Ketone
December	Pre-Board-I		
January	Pre-Board-II		

Biology (Code -044)

Name of the Book		Publisher	
NCERT			
Months		Practical	Practical & Activity
March & April		Unit VI Reproduction	1. Identification of stages of gamete development i.e. TS of testis and T.S of ovary through permanent slide. 2. T.S of blastula through permanent slides
		Ch 2 Sexual reproduction in flowering plants	
		Ch 3 Human Reproduction	
May & June	PA-I Examination	Ch 4 Reproductin health	3. Prepare a temporary mount to observe pollen germination . 4. flowers adapted to pollination by different agencies. 5. Prepare a temporary mount of onion root tip to study mitosis. 6. Isolate DNA from available plant material.
		Unit VII Genetics & Evolution	
		CH 5 Principles of Inheritance & Varialion	
July		Ch 6 Molecular basis of Inheritance	7. Mendelian inheritance using seeds of different colour/size of any plant. 8. Pollen germination through a permanent slide.
		Ch 7 Evolution	
		Unit VIII- Biology in Human welfare	
		Ch 8 Human Health & disease	

August		Ch 10 Microbes in Human welfare	9. Study the plant population density by quadrat method. 10. Study the population frequency by quadrat method. 11. Common disease causing organism through models or permanent slides.
September	Half Yearly Examination	Unit IX - Biotechnology	12. Flash cards models showing examples of homologous and analogous organs. 13. Models, specimen showing symbiotic association in root nodules of leguminous plants.
		Ch 11 Biotechnology - Principles & processes	
		Ch 12 Biotechnology & its Application	
October		Unit X Ecology	Prepared pedigree charts of any one genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.
		Ch 13 Organisms & Populations	
		Ch 4 Ecosystem	
November		Ch 15 Biodiversity & its conservation	
December	Pre- Board - I		
January	Pre- Board - II		

Painting (Code -049)

Name of the Book		Publisher	
Paharomic Indian Art		Vishal Publication	
Months		Chapter	Practical
March & April		Rajasthani School of Painting	* Still life object * Landscape
		Pahari School of Painting	
May & June	PA- I Examination	The Mughal School of Art	* Still life object
July		The Deccan School of Art	* Composition * Still life object
August		The Bengal School of Art Revision	* Composition * Still life object
September	Half Yearly Examination	The Modern Trend in Indian Art	* Composition * Landscape
October			*Canvas (Mythology)
November		Revision	* Composition
December	Pre-Board -I		
January	Pre-Board -II		

Physical Education (Code -048)

Name of the Book		Publisher	
Health & Physical Education		Ashoka Publication	
Months		Chapter	Practical
March & April		Management of Sports Event	Volleyball, Khokho
		Children and Women in Sports	
May & June	PA- I Examination	yoga as preventive measure for lifestyle disease	Yoga
July		Phy. Edu for CWSN	Basket Ball, Cricket
		Sports and Nutrition	
August		Test & Measurement in Sports	Sai Khelo India Test, Flemingo Test
September	Half Yearly Examination	Physiology & Injuries in Sports	
October		Biomechanics & Sports	Hand Ball
		Psychology & Sports	

November		Training in Sports	Kabaddi
December		Pre-Board - I	
January		Pre-Board - II	

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 Precribed Ragas Detail study of Ratnakar, Life Sketch of Faiyaz Khan	Ragas- Detail Study of Raga Bageshree
July		Unit -3 Reitatino 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 Reitatino of Thekas of Tilwada Tal, DhamarTal	
October		Unit-6 Classification of Ragas-Ancient , Medieval and Modern,	Ragas- Detail Study of Raga Shudh Sarang
November		Revision	
December		Pre-Board - I	
January		Pre-Board -II	

IP(065)

Name of the Book		Publisher	
Informatics Practices		CBSE	
Months	P.A	Section	Chapter
March & April		Unit - 1,2	Unit 2 : Database query using SQL
			Unit 1 : Data handling using Pandas and Data visualization - I
May & June	PA-I Examination	Unit - 1,2	Unit 1 : Data handling using Pandas and Data visualization - II
July			Unit 1 : Data handling using Pandas and Data visualization - II (Cont.)
August		Unit - 1,2,3,4	Unit 3 : Introduction to Computer Networks
September	Half Yearly Examination		Unit 3 : Introduction to Computer Networks (Cont.)
October			Unit 4 : Societal Impacts Project work -4
November		Unit - 1,2,3,4	Revision for Preboard
December		Pre-Board - I	
January		Pre-Board -II	