

Usha Martin School, Malda Session:-2025-26

Class:-XII SCIENCE syllabus

Examination Name	Subject	Content
PT-1	ENGLISH	FLAMINGO 1. The Last Lesson 2. Lost Spring 3. The Rat Trap 4. Aunt Jennifer's Tigers 5. My Mother at Sixty Six
		VISTAS 1. The Third Level 2. The Tiger King
		WRITING 1. Notice 2. Articles
		Ch 1: Electric charge and field
	PHYSICS	Ch 2: Electric potential and capacitance
		Ch 3: current electricity
PT-1	CHEMISTRY	BOOK: 1. NCERT CHEMISTRY PART (PART I + PART II) 2. MODERN'S abc+ CHEMISTRY (PART I + PART 2)
		UNIT: 1 Solutions UNIT: 5 Coordination Compounds UNIT: 6 Haloalkanes and Haloarenes UNIT: 4 The d- and f- block Elements

PT-1	MATHEMATICS	NCERT MATHEMATICS 1. Integrals (First Four Exercise) 2. Matrices 3. Determinants 4. Relations And Functions 5. Inverse Trigonometric Functions
	APPLIED MATHEMATICS	1. Numbers & Quantification (Modulo Arithmetic, Congruence Modulo, Alligation and Mixture, Numerical Problems, Boats and Streams (upstream and downstream), Pipes and Cisterns, Races and Games, Numerical Inequalities) 2. ALGEBRA (Matrices and types of matrices , Equality of matrices, Transpose of a matrix, Symmetric and Skew symmetric matrix, Algebra of Matrices, Determinants, Inverse of a matrix, Solving system of simultaneous equations using matrix method and Cramer's rule) 3. PROBABILITY DISTRIBUTIONS (Probability Distribution, Mathematical Expectation, Variance Binomial Distribution, Poison Distribution, Normal Distribution)
	COMPUTER SCIENCE	BOOK:- COMPUTER SCIENCE WITH PYTHON (SUMITA ARORA) Ch 1:- Python Revision Tour Ch 2:- Python Revision Tour-II Ch 3:-Working With Function Ch 5:- File Handling Ch 6:- Exception Handling
PT-1	INFORMATION PRACTICES	Ch-1 Python pandas- I Ch-2 Python Pandas - II Ch-3 Plotting with Pyplot
	PSYCHOLOGY	Chapter 1 - Variations in Psychological attributes
		Chapter 2 - Self and Personality

	T	
		Chapter 3 - Meeting Life Challenges
	PHYSICAL EDUCATION	THEORY: Ch:-1. Management of Sporting Events. Ch:-2. Children and Women in Sports. Ch:-3. Yoga as Preventive Measure for Lifestyle Disease.
PT-1	PAINTING	The Rajasthani School of Miniature Painting.
		The Pahari School of Miniature Painting.
		The Mughal School of Miniature Painting
		PRACTICAL Nature and Object Study
	M	Theory:
	MUSIC	1. Brief of the following: Alankar, kan, Meend
		2. Brief history of the following:
		i) Gram, ii) Murchhana
		3. Historical development of Time Theory of Ragas.
		4. Life sketch and contribution of Faiyaz Khan
		5. Description of prescribed Talas along with tala notation with Thah, dugun, Tingun and Chaugun:
		i) Jhaptala
		ii) Dhamar
		iii) Rupak
		6. Writing in notation the compositions of raga:
PT-1		i) Bhairav
<u>-</u>		7. Tuning of Tanpura

	ECONOMICS	Introductory Macroeconomics:- 1. Money and Banking. Indian Economic Development — 1. Development Experience (1947-90) and Economic Reforms since 1991.
PT-1	BENGALI	সাহিত্য চর্চা গদ্যঃ- i)কে বাঁচায়, কে বাঁচে- মানিক বন্দ্যোপাধ্যায় ii) নাটকঃ নানা রঙের দিন — অজিতেশ বন্দ্যোপাধ্যায় পদ্যঃ- iii)রূপনারাণের কূলে- রবীন্দ্রনাথ ঠাকুর iv)আমি দেখি — শক্তি চট্টোপাধ্যায় সহায়ক পাঠঃ আমার বাংলা -সুভাষ মুখোপাধ্যায় v) গারো পাহাড়ের নীচে vi) ছাতির বদলে হাতি উচ্চতর বাংলা ব্যাকরণ ১)ধ্বনিতত্ব (একটি উদাহরণসহ সংজ্ঞা) ক)অপিনিহিতি থ) অভিশ্রুতি গ) স্বরসঙ্গতি ঘ) স্বরভক্তি ২)প্রবাদ-প্রবচন ও বাগধারা (অর্থসহ বাক্যে প্রয়োগ তালিকায় দেওয়া প্রথম ২৫টি) নির্মিতি
	HINDI	गद्य खंड - आरोह भाग -2 1. पहलवान की ढोलक - फणीश्वर नाथ रेणु 2. भिक्त महादेवी वर्मा 3. काले मेघा पानी दे- धर्मवीर भारती 4. बाजार दर्शन जैनेंद्र कुमार पध खंड - 1.एक गीत हरिवंश राय बच्चन 2. कविता के बहाने - कुंवर नारायण 3. कैमरे में बंद अपाहिज - रघुवीर सहाय
		बितान सिल्वर वेडिंग मनोहर जोशी जूझ आनंद यादव जनसंचार दबे पांव रचनात्मक लेखन विभिन्न माध्यमों के लिए लेखन अपठित गद्यांश - अपठित गद्यांश कैसे करें कहानी का नाटक रूपांतरण कैसे बनता है रेडियो नाटक अप्रत्याशित विषय पर लेखन
PT-1		BIOLOGY BOOK: 1. NCERT BIOLOGY 2. MODERN'S abc+ BIOLOGY (PART I + PART 2)

BIOLOGY	Unit-VI Reproduction Chapter-1: Sexual Reproduction in Flowering Plants Chapter-2: Human Reproduction Chapter-3: Reproductive Health Chapter-4: Principles of Inheritance and Variation Chapter-5: Molecular Basis of Inheritance
---------	---

Examination Name	Subject	Content
HALF YEARLY	ENGLISH	FLAMINGO 1.The Last Lesson 2.Lost Spring 3.The Rat Trap 4. Aunt Jennifer's Tigers 5. My Mother at Sixty Six 6. Deep Water 7. Indigo 8. The Interview 9. Keeping Quiet 10. Roadside Stand VISTAS 1. The Third Level 2. Journey to the end of the Earth
		3. The Tiger King WRITING 1. Notice 2. Articles 3. Formal/Informal Invitations and Replies 4. Letter Writing 5. Report Writing
		Ch 1: Electric charge and field Ch 2: Electric potential and capacitance
HALF	PHYSICS	Ch 3: current electricity
YEARLY		Ch 4: Magnetic effect of electric current Ch 5: Magnetism Ch 6: Electromagnetic induction Ch 7: Ac Currents

THEORY **BOOK: 1. NCERT CHEMISTRY CHEMISTRY** PART (PART I + PART II) 2. MODERN'S abc+ CHEMISTRY (PART I + PART 2) **UNIT: 1 Solutions HALF UNIT: 3 Chemical Kinetics** UNIT: 4 The d- and f- block Elements **UNIT**: 5 Coordination Compounds YEARLY UNIT: 6 Haloalkanes and Haloarenes UNIT: 8 Aldehydes, Ketones and Carboxylic Acids **UNIT: 9 Amines UNIT: 10 Biomolecules PRACTICAL BOOK: COMPREHENSIVE PRACTICAL CHEMISTRY** 1. Volumetric Analysis 2. Salt Analysis 3. Content Based Experiment 4. Project 5. Class Record and viva NCERT MATHEMATICS 1. Integration **MATHEMATICS** 2. Matrices 3. Determinants 4. Continuity And Differentiability 5.. Application Of Derivatives 6. . Relations And Functions 7. Inverse Trigonometry Function 1. Calculus (Derivatives up to second order, Application of APPLIED **Derivatives, Marginal Cost and MATHEMATICS** Marginal Revenue using derivatives, Increasing /Decreasing Functions, Maxima **HALF** and Minima,Integration,indefinite Integrals as family of curves, Definite Integrals as area YEARLY under the curve, Application of Integration, Differential

		Equations,Formulating and Solving Differential Equations) 2. LINEAR PROGRAMMING (Introduction and related terminology, Mathematical formulation of Linear Programming Problem,Different types of Linear Programming Problems,Graphical method of solution for problems in two variables,Feasible and Infeasible Regions,Feasible and infeasible solutions, optimal feasible solution)
HALF YEARLY	COMPUTER SCIENCE	BOOK:- COMPUTER SCIENCE WITH PYTHON (SUMITA ARORA) Ch 1:- Python Revision Tour Ch 2:- Python Revision Tour-II Ch 3:-Working With Function Ch 5:- File Handling Ch 6:- Exception Handling Ch 7:- Data Structures (7.5 Stacks) Ch 10:- Relational Database Ch 11:- Simple Queries in SQL Ch 12:- Table Creation and Data Manipulation Command Ch 13:-Grouping Records, Joins in SQL Ch 14:- Interface Python with MySQL
	INFORMATION PRACTICES	Ch-1 Python pandas- I Ch-2 Python Pandas - II Ch-3 Plotting with Pyplot Ch-4 Importing /Exporting Data between CSV Files/MySQL & pandas Ch-5 MySql revision tour Ch-6 My SQL functions Ch-7 Query Using SQL
		Chapter 1 - Variations in Psychological attributes
	PSYCHOLOGY	Chapter 2 - Self and Personality
		Chapter 3 - Meeting Life Challenges
HALF		Chapter 4 - Psychological Disorders Chapter 5 - Therapeutic Approaches Chapter 6 - Attitude and Social Cognition
YEARLY		THEORY: Ch:-1. Management of Sporting Events.

PHYSICAL EDUCATION

Ch:-2. Children and Women in Sports.

Ch:-3. Yoga as Preventive Measure for Lifestyle Disease.

Ch:- 4. Physical Education & Sports for CWSN (Children with Special Needs - Divyang)

Ch:-5. Sports & Nutrition.

Ch:-6.Test & Measurement in Sports

PRACTICAL:

1. SAI khelo India Test.

2. Yoga-

Obesity:Paschimottanasana,Halasana.

Diabetes:Bhujangasana,Pavanmuktasa na.

Asthma: Vakrasana, Gomukhana

Hypertension:Katichakrasana,Ardha Halasana

Back pain and Arthritis: Ardha-Chakrasana, Bhadrasana.

3. Proficiency in Game and Sports

4.Viva Voce(Health/Games & Sports/Yoga)

5.Record file :-Record File shall include:

Practical-1. Fitness tests administration. (SAI Khelo India Test) With Pictures.

Practical-2 Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease. with Pictures.

Practical-3: Anyone one IOA recognised Sport/Game of choice.
Labelled diagram of Field & Equipment.
Also mention its Rules, Terminologies & Skills.

HALF YEARLY

HALF

YEARLY **Deccan Schools of Miniature Painting Indian National Flag PAINTING** The Bengal School of Painting Practical: **Painting Composition** HALF Theory: **MUSIC** 1. Brief of the following: Alankar, kan, Meend, Khatka, Murki, Gamak YEARLY 2. Brief history of the following: i) Gram, ii) Murchhana, iii) Alap, iv) Tana 3. Historical development of Time Theory of Ragas. 4. Life sketch and contribution of Faivaz Khan, Bade Gulam Ali Khan, Krishna Rao, Shankar Pandit 5. Description of prescribed Talas along with tala notation with Thah, dugun, Tingun and Chaugun: i) Jhaptala ii) Dhamar iii) Rupak 6. Writing notation the compositions of raga: i) Bhairav, ii) Bageshri, iii) Malkauns 7. Tuning of Tanpura. 8. Detail study of the following Sangeet Ratnakar, Sangeet Parijat. HALF 9. Critical study of prescribed ragas along with recognizing ragas from phrases of swaras and elaborating them excluding Raga Shuddha Sarang. YEARLY

Practical:

1. One vilambit khayal with simple elaborations and few tanas in any two of the prescribed ragas. 2. One drut khayal with simple elaborations and few tanas in the following ragas: HALF Bhairav, Bageshri, Malkauns 3. Ability to recognize the ragas from the phrases of swaras rendered by the YEARLY examiner. 4. Recitation of thekas of Teentala, Ektala, and Chautala with Thah, Dugun, Tingun and Chaugun, keeping tala with hand beats. 5. Tuning of Tanpura. 6. One Tanas and one Dhamar with dugun and chaugun, keeping tala with handbeats. **Introductory Macroeconomics.** 1. National Income and Related Aggregates . **ECONOMICS** 2. Money and Banking. **Indian Economic Development.** 1. Development Experience (1947-90) and Economic Reforms since 1991. 2. Current Challenges facing Indian Economy. (Human capital formation, Rural development). সাহিত্য চৰ্চা গদাঃ-**BENGALI** i)কে বাঁচায়, কে বাঁচে- মানিক বন্দ্যোপাধ্যায় ii)ভারতবর্ষ – সৈয়দ মুস্তাফা সিরাজ iii)ভাত – মহাশ্বেতা দেবী নাটকঃ নানা রঙ্কের দিন – অজিতেশ বন্দ্যোপাধ্যায় **HALF** পদাঃiv)রূপনারাণের কুলে- রবীন্দ্রনাথ ঠাকুর

YEARLY

HALF YEARLY

v)আমি দেখি – শক্তি চট্টোপাধ্যায় vi)ক্রন্দনরত জননীর পাশে – মৃদুল দাশগুপ্ত

vii)পড়তে জানে এমন এক মজুরের প্রশ্ন - বেটোল্ট ব্রেখ্ট

সহায়ক পাঠঃ আমার বাংলা -সুভাষ মুখোপাধ্যায়

viii) গারো পাহাড়ের নীচে

- ix) ছাতির বদলে হাতি
- x) মেঘের গায়ে জেলখানা
- xi)পাতালপুরীর রাজ্যে

<u>উচ্চতর বাংলা ব্যাকরণ</u>

- ১)ধ্বনিতত্ত্ব (একটি উদাহরণসহ সংজ্ঞা)
- ক)অপিনিহিতি
- খ) অভিশ্ৰুতি
- গ)স্বরসঙ্গতি
- ঘ) স্বরভক্তি
- ২)শব্দার্থতত্ত্ব
- ক) অর্থের উৎকর্ষ
- খ) অর্থের উপকর্ষ
- গ) অর্থের সংকোচন
- ঘ) অর্থের প্রসারণ
- ৩) প্রবাদ-প্রবচন ও বাগধারা (অর্থসহ বাক্যে প্রয়োগ)

নিৰ্মিতি

- ১) প্রতিবেদন রচনা
- ২) বিজ্ঞাপন রচনা

HINDI

आरोह भाग -2
गद्य खंड
श्रम विभाजन जाति प्रथा
मेरी कल्पना का आदर्श समाज
भीमराव अंबेडकर
काव्य खंड
रूवैया फिराक गोरखपुरी
छोटा मेरा खत
उमाशंकर जोशी
विज्ञान
सिल्वर वेडिंग
मनोहर जोशी
जझ आनंद यादव

	अतीत में दबे पांव अभिव्यक्ति माध्यम पत्रकारिता लेखन की विभिन्न रूप और लेखन प्रक्रिया विशेष लेखन स्वरूप और प्रकार
BIOLOGY	BIOLOGY BOOK: 1. NCERT BIOLOGY 2. MODERN'S abc+ BIOLOGY (PART I + PART 2) Unit-VI Reproduction Chapter-1: Sexual Reproduction in Flowering Plants Chapter-2: Human Reproduction Chapter-3: Reproductive Health Unit-VII Genetics and Evolution Chapter-4: Principles of Inheritance and Variation Chapter-5: Molecular Basis of Inheritance Chapter-6: Evolution Unit-VIII: Biology and Human Welfare Chapter-7: Human Health and Diseases Chapter-8: Microbes in Human Welfare Unit-IX Biotechnology and its Applications Chapter-9: Biotechnology - Principles and Processes Chapter-10: Biotechnology and its Applications