

PROPOSED ACADEMIC CALENDER 2023-24

Summer Vacation : 21 May,2023 to 02 July,2023

Winter Vacation : 24 December,2023 to 01 January,2024

	XI-XII
UNIT I P.T. I EVALUATION I	16-05-2023 TO 27-05-2023
P.T. II	
TERM I EVALUATION II	09-09-2023 TO 25-09-2023
P.T. III	
II UNIT P.B.-I P.T.-II (I-VIII)	18-11-2023 TO 02-12-2023
PRE ANNUAL P.B.-II	23-12-2023 TO 06-01-2024
TERM II FINAL	AS PER SAHODAYA/CBSE BOARD

SYLLABUS FOR SESSION 2022-2023

CLASS - XII

ENGLISH

Book : 1. Flamingo

2. Vistas

Note : Two unit tests will be taken in between the two terms.

TERM-I (April to September)

Section-A (Reading Skills)	Section-B (Creative Writing Skills)	Section-C (Literature)	
		Flamingo (Textbook)	Vistas (Prose)
<ul style="list-style-type: none"> • Unseen Passage (Factual Descriptive or Literary/Discursive or Persuasive) • Case based unseen (factual) passage 	<p>Short Writing Tasks :</p> <ul style="list-style-type: none"> • Notice Writing, Invitation & Replies <p>Long Writing Tasks :</p> <ul style="list-style-type: none"> • Letter to an Editor (Giving suggestions or opinion on issues of Public Interest), Job application • Article Writing, Report Writing 	<p>Prose Section :</p> <ul style="list-style-type: none"> • The Last Lesson • Lost Spring • Deep Water • The Rattrap <p>Poetry Section :</p> <ul style="list-style-type: none"> • My Mother at Sixty Six • Keeping Quiet 	<ul style="list-style-type: none"> • The Third Level • The Tiger King • Journey to the End of the Earth • The Enemy

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TERM-II (October to February)

Section-A (Reading Skills)	Section-B (Creative Writing Skills)	Section-C (Literature)	
		Flamingo (Textbook)	Vistas (Prose)
<ul style="list-style-type: none"> • Unseen Passage (Factual Descriptive or Literary/Discursive or Persuasive) • Case based unseen (factual) passage 	<p>Short Writing Tasks :</p> <ul style="list-style-type: none"> • Notice Writing, Invitation & Replies <p>Long Writing Tasks :</p> <ul style="list-style-type: none"> • Letter to an Editor (Giving suggestions or opinion on issues of Public Interest), Job application • Article Writing, Report Writing 	<p>Prose Section :</p> <ul style="list-style-type: none"> • Indigo • Poets & Pancakes • The Interview • Going Places <p>Poetry Section :</p> <ul style="list-style-type: none"> • A Thing of Beauty • A Roadside Stand • Aunt Jennifer's Tigers 	<ul style="list-style-type: none"> • On the Face of it • Memories of Childhood

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MUSIC VOCAL

(Theory)

- Term-I :**
1. Alankar, Kan, Meend, Murki, Gamak, Gram, Murchana, Alap, Tana, Khatka
 2. Historical development of Time Theory of Ragas
 3. Details study of Sangeet Ratnakar Sangeet Parijat

- Term-II :**
4. Life-sketch and contribution of Faiyaz Khan, Bade Ghulam Ali Khan, Pandit Krishan Rao Shanker
Description of Prescribed Talas along with Tala Notation with Thah, Dugun, Tigun and Chaugun : Jhaptala, Rupak, Dhamar
 5. Tuning of Tanpura
Critical study of Prescribed Ragas along with recognizing Ragas from phrases of Swaras and elaborating them excluding Raga Shuddha Sarang.
 6. Writing in Notation the Composition of prescribed Ragas :
Bhairav, Bageshri, Malkauns

(Practical)

- Term-I :**
1. One vilambit khayal with simple elaborations and few Tanas in any two of the Ragas.

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2. One drut khayal with simple elaborations and few Tanas in the following Ragas :
Bhairav, Bageshri and Malkauns.

- Term-II :**
1. One Tarana and one dhamar with dugun and chaugun in any one of the prescribed Ragas.
 2. Ability to recognize the Ragas from the phrases of swaras rendered by the examiner.
 3. Recitation of the Thekas of Jhaptala, Rupak and dhamar with dugun and chaugun keeping tala with handbeats.
 4. Tuning of Tanpura.

INFORMATICS PRACTICES (065)

Term-I

- Unit-2 Database Query using SQL Math Functions : Power(), Round (), MOD (). Text functions : UCASE()/UPPER (), LCASE() / LOWER (), MID ()/SUBSTRING() / SUBSTR (), LENGTH(), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM (). Date Functions : NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME (). Aggregate Functions : MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*), Querying and manipulating data using Group by, Having, Order by.

- Unit-2 : Data Visualization Purpose of plotting; drawing and saving following types of plots using

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Matplotlib – line plot, bar graph, histogram
Customizing plots : adding label, title, and legend in plots.

Unit 3 Introduction to Computer Networks, Introduction to Networks, Types of Network : LAN, MAN, WAN. Network Devices : modem, hub, switch, repeater, router, gateway Network Topologies : Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP.

Unit 1 Data Handling using Pandas- I Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and Data Frames. Series : Creation of Series from - ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing.

Term-II

Data Frames : creation - from dictionary of Series, list of dictionaries, Text/CSV files; display; iteration; Operations on rows and columns : add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing; Importing / Exporting Data between CSV files and Data Frames.

Unit-4 Societal Impacts Digital footprint, Net and Communication Etiquettes, Data Protection, Intellectual Property Rights (IPR), Plagiarism, Licensing and Copyright, Free and Open Source Software (FOSS), Cybercrime and Cyber Laws,

Hacking, Phishing, Cyber bullying, Overview of Indian IT Act. E-waste : hazards and management. Awareness about health concerns related to the usage of technology.

Website : Introduction, Difference between a Website and Webpage, Static vs Dynamic Web page, Web server and hosting of a website. Web Browsers : Introduction, Commonly used browsers, browser settings, add-ons and plug-ins, cookies.

PHYSICS

Term-I (April to September)

Electrostatic

Current Electricity

Magnetic Effects of Current and Magnetism

Electromagnetic Induction

Alternating Current

Electromagnetic Waves

Term-II (September to March)

Ray Optics

Wave Optics

Dual Nature

Atom and Nuclei

Electronic Devices

Marking Scheme :

Theory : 70 marks

Practical : 30 marks

Practical Evaluation Scheme	
Two experiments one from each section	7 + 7 marks
Practical Record	5 marks
One activity from any section	3 marks
Investigatory Project	3 marks
Viva on experiments, activity and project	5 marks

- Note :** (1) Syllabus of First Term will be added in the Second Term.
 (2) Unit Test exam will be in between the terminal exam.

CHEMISTRY

Note : Unit test exams will be in between the terminal exams.

Term-I

1. Solution
2. Haloalkane and Haloarene
3. Electrochemistry
4. Alcohol, Phenol and Ether
5. Aldehydes, Ketones and Acids
6. Biomolecules
7. D and F Block Elements

Term-II

8. Coordination Compounds
9. Chemical Kinetics
10. Amines

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Marking Scheme :

Theory Examination : 70 marks
 Practical Examination : 30 marks

Practicals

3 Hours/30 marks

Evaluation Scheme for Examination	Marks
Volumetric Analysis	08
Salt Analysis	08
Content Based Experiment	06
Project Work	04
Class record and viva	04
Total	30

MATHEMATICS

Books : NCERT–Part 1 & Part 2

- Note :** (1) Unit test exams will be conducted in between the terminal exams.
 (2) General questions related to the topics will be asked in the exams.

Term-I

- Ch-2 Inverse Trigonometric Functions
 Ch-3 Matrices
 Ch-4 Determinants
 Ch-5 Continuity and Differentiability
 Ch-6 Applications of Derivatives
 Ch-12 Linear Programming Problems

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- Ch-7 Integrals
- Ch-8 Applications of Integrals

Term-II

- Ch-1 Relations and Functions
- Ch-9 Differential Equations
- Ch-10 Vectors
- Ch-11 3-D Geometry
- Ch-13 Probability

Marking Scheme

Theory Examination : 80 marks
Internal Assessment : 20 marks

APPLIED MATHEMATICS

Books : APC Books (M.L. Aggarwal)

General Instructions :

- (1) General questions related to the topics will be asked in exam.
- (2) Unit Test Exams will be conducted in between the term exams.

Term-I (April to September)

- Ch-1 Numbers, Quantification and Numerical Applications
- Ch-2 Numerical Inequalities
- Ch-3 Matrices
- Ch-4 Determinants
- Ch-5 Differentiation
- Ch-6 Applications of Derivatives

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- Ch-15 Linear Programming
- Ch-11 Index Numbers and Time Based Data

Term-II (October to March)

- Ch-7 Integration and its Applications
- Ch-8 Differential Equations and Modeling
- Ch-10 Inferential Statistics
- Ch-12 Perpetuity, Sinking Funds, Bonds and EMI
- Ch-14 Return, Growth and Depreciation
- Ch-9 Probability Distribution

Marking Scheme :

Theory Examination : 80 marks
Internal Examination : 20 marks

PAINTING (049)

Theory : 30 marks, History of Indian Painting

(Time : 2 Hrs.)

Term-I

1. Rajsthani and Pahari Schools of Miniature Paintings.
2. The Mughal and Deccan School of Miniature Painting.

Term-II

3. The Bengal School of Painting
4. The Modern trends in Indian Art.

Practical :

1. Nature Study and Object Study
2. Painting Composition
3. Portfolio Assessment

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COMPUTER SCIENCE

Term-I

- Ch-1 Revision of Basic Python
Programming Fundamentals, Conditional and Looping Statements, Strings, Lists, Dictionary, Tuples and Related Functions
- Ch-2 Functions
Scope and Parameters, Functions using Libraries (Math and string functions), User defined functions
- Ch-7 Computer Network and Its Concepts
- Ch-8 Relational Database and SQL
Introduction to database, DDL commands, DML commands, DCL commands and SQL aggregate functions
- Ch-9 Interface Python with SQL
Creating database connectivity, creation of cursor and its execution, fetchone(), fetchall(), rowcount() functions.

Term-II

- Ch-3 Using Python Libraries
- Ch-4 DATA File Handling
Need of a data file, text file, binary file, csv file, various file operations, open, close append, update modes and its operations
- Ch-6 Data Structures in Python
Pop, push methods using lists
Insert delete methods using queue

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BIOLOGY

Book : NCERT Biology

Unit-I (1-4)

- Term-I :**
1. Sexual reproduction in flowering plants
 2. Human reproduction
 3. Reproductive Health
 4. Principles of inheritance and variation
 5. Molecular basis of inheritance
 6. Evolution
 7. Human health and diseases
 8. Microbes in human welfare
 9. Biotechnology Principles and Processes

Term-I (1-9)

10. Biotechnology and its applications
11. Organisms and Populations
12. Ecosystem
13. Biodiversity and Conservation

Term-II (Full Syllabus)

Weightage of Theory Marks : Unit : 50, Term : 70

BUSINESS STUDIES

Books recommend :

- NCERT XII Business Studies Part 1
NCERT XII Business Studies Part 2

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- Term-I :**
1. Nature and significance of management
 2. Principles of Management
 3. Business Environment
 4. Planning
 5. Organising
 6. Staffing
 7. Directing
 8. Controlling

- Term-II :**
9. Financial Management
 10. Financial Market
 11. Marketing
 12. Consumer Protection

ECONOMICS

Books recommend : NCERT and Subhash Dey

Term-I (April to September)

Part-A : Introductory Macroeconomics

- Unit-1 : National Income and Related aggregates
Unit-2 : Money and Banking
Unit-3 : Determination of Income and Employment
Unit-4 : Government Budget and the Economy

Part-B : Indian Economic Development

- Unit 6 : Development Experience (1947-1990) and economic reforms since 1991
Unit-7 : Current challenges facing Indian Economy (Till Human Capital Formation)

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Term-II (October to February)

Part-A

Unit-5 : Balance of Payment

Part-B

- Unit-7 : Current challenges facing Indian economy (Rural Employment Growth, Informalisation and other issues, Environment and Sustainable Development)
Unit-8 : Development experience of India Pakistan and China (A comparison with Neighbours)

ACCOUNTANCY

Term-I

Part-A : Accounting for Partnership Firms

1. Accounting for Partnership Firms-Fundamentals
2. Goodwill : Nature and Valuation
3. Change in Profit Sharing Ratio
4. Admission of a Partner
5. Retirement of a Partner
6. Death of a Partner
7. Dissolution of a Partnership Firm

Accounting for Companies

1. Issue of Share Capital

Term-II

Accounting for Companies

1. Issue of Debentures

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Part-B : Financial Statement Analysis

2. Financial Statements of a Company
3. Analysis of Financial Statements
4. Tools of Financial Statement Analysis : Comparative and Common Size
5. Calculation of Accounting Ratios
6. Cash Flow Statements

PHYSICAL EDUCATION (048)

Practical : 30 Marks, Theory : 70 marks

Term-I

- Unit-1 Management of Sporting Events
- Unit-2 Children and Women in Sports
- Unit-3 Yoga as Preventive measure for Lifestyle Disease
- Unit-4 Physical Education and Sports for C.W.S.N
- Unit-5 Sports and Nutrition

Term-II

- Unit-6 Test and Measurement in Sports
- Unit-7 Physiology and Injuries in Sport
- Unit-8 Biomechanics and Sports
- Unit-9 Psychology and Sports
- Unit-10 Training in Sports

Practical

Max. Marks : 30

- * Physical Fitness Test : SAI Khalo India Test, 6 marks
- Brockport Physical Fitness Test (BPFT)

- * PROFICIENCY IN GAMES AND SPORTS (Skill of any one game of choice from the given list)

• Yogic Practices** 7 marks

• Record File*** 5 marks

• Viva Voce (Health/ Games & Sports/ Yoga) 5 marks

* Test for CWSN (any 4 items out of 27 items but 1 item from each component : Aerobic function, Body Composition, Muscular strength & endurance, range of motion or flexibility).

**Basketball, Football, Kabaddi, Kho-Kho, Volleyball, Handball, Hockey, Cricket.

**CWSN (Children With Special Needs – Divyang) : Bocce/Boccia, Sitting Volleyball, Wheel Chair Basketball, Unified Badminton, Unified Basketball, Unified Football, Blind Cricket, Goalball, Floorball, Wheel chair races and throws, or any other sport/games of choice.

**Children With Special Needs may opt any one sport/ game from the list as alternative for Yogic Practices. However, the sport/game must be different for skill of Game and alternate to yogic practices.

***Record File shall include :

- Practical-1 : Fitness tests administratin.
- Practical-2 : Procedure for Asanas, Benefits & Contradication for any two Asanas for each lifestyle disease.
- Practical-4 : Anyone game of your choice out of the list above. Labelled diagram of field & equipment (Rules, Terminologies & Skills).

POLITICAL SCIENCE (028)**Part A : Contemporary World Politics**

Units	Contents	Marks
1.	The End of Bipolarity	8
2.	New Centres of Power	12
3.	Contemporary South Asia	
4.	United Nations and its Organizations	10
5.	Security in Contemporary World	
6.	Environment and Natural Resources	10
7.	Globalization	

Total 40

Part-B : Politics in India since Independence

Unit	Contents	Marks
1.	Challenges of Nation-Building	08
2.	Planned Development	08
3.	India's Foreign Policy	
4.	Parties and Party System in India	12
5.	Democratic Resurgence	12
6.	Regional Aspirations	
7.	Indian Politics : Recent Trends and Development	
Total		40

Project Work : 20 marks

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FINANCIAL MARKETS MANAGEMENT

Theory : 60 Marks; Practical : 40 Marks

Unit-I

1. Introduction to Indian Securities Markets and Trading Membership
2. Trading
3. Communication Skills

Unit-I (1 to 3)**Term-I**

4. Clearing, Settlement and Legal Framework
5. Financial Statement Analysis
6. Introduction to Derivatives
7. Self-Management Skill
8. Entrepreneurial Skills

Term-I (1 to 9)**Unit-II**

10. Future Contracts, Mechanism and Pricing
11. Green Skills

Unit-II (10 to 11)

Final Exams (Full Syllabus)

PUNJABI**Term-I**

ਕਵਿਤਾਵਾਂ : ਟੁਕੜੀ ਜੱਗ ਤੋਂ ਨਯਾਰੀ, ਤਾਜ ਮਹੱਲ, ਚੁੰਮ ਚੁੰਮ ਰੱਖੋ, ਵਾਰਸ ਸ਼ਾਹ, ਮੇਰਾ ਬਚਪਨ, ਗੀਤ।

ਕਹਾਣੀਆਂ : ਸਾਂਝ, ਨੀਲੀ, ਮਾੜਾ ਬੰਦਾ

ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੀ ਜਾਣ ਪਛਾਣ

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ਲੇਖ : ਪੰਜਾਬ ਦੇ ਮੇਲੇ ਤੇ ਤਿਉਹਾਰ, ਪੰਜਾਬ ਦੇ ਰਸਮ-ਰਿਵਾਜ,
ਪੰਜਾਬ ਦੀਆਂ ਲੋਕ ਖੇਡਾਂ

ਵਿਆਕਰਨ : ਵਾਕ ਵਟਾਂਦਰਾ, ਪ੍ਰੈਸੀ (ਸੰਖੇਪ ਰਚਨਾ), ਪੈਰਾ ਰਚਨਾ, ਪੱਤਰ-
ਕਾਰ-ਵਿਹਾਰ, ਅਖਾਣ।

Term-II

ਕਹਾਣੀ : ਘਰ ਜਾ ਆਪਣੇ

ਲੇਖ : ਪੰਜਾਬ ਦੇ ਲੋਕ ਨਾਚ

ਵਿਆਕਰਨ : ਅਖਾਣ, ਪੱਤਰ-ਕਾਰ ਵਿਹਾਰ

Term-I will be included in Term-II.

DANCE

Theory

Term-I

1. History with other classical dance styles of India
2. Three gharanas of Kathak dance (Lucknow, Jaipur, Benaras)
3. Terms : Sangeet, Tal, Laya, Ras & Bhaira
4. Abhinaya & its four aspects
5. Definition : Vandana, Tihai, Aamad, Toda/Tukra, Tali, Khali, Sam, Paran
6. Ability to notate a Tukra/Toda & Paran

Term-II

1. Terms : Anghara, Bhramari, Lokdharmi, Natyadharmi, Chakardan, Toda/Tukra & Para, Gatnikas, Gatbhava.
2. Theka of Dadra, Kehrwaa, Roopak
3. Acquaintance with traditional makeup & costume.
4. Ability to notate in teentaal & jhaptal.

Practical of Term-I & Term-II

1. Practice of tatkkaar set to teentaal & jhaptal in slower tempo, in its double & four times.
2. Students should know all the techniques & compositions :
 - (a) Vandana
 - (b) Aamad
 - (c) Thaat
 - (d) Fast Aamad
 - (e) Tukra/Toda
 - (f) Tihai
 - (g) Gatnikas
 - (h) Gatbhav
 - (i) Padhant of tukra/toda with host kriya
3. Ability to improvise in nritta & abhinaya.
4. Padhant to the basic theka of all the compositions learnt.

Note : Students should be taught some of these in jhaptal and dhamaar taal.

PSYCHOLOGY

Theory : 70 marks, Total : 100 marks

Term-I

- Ch-1 Variations in Psychological Attributes
Ch-2 Self and Personality

Ch-3 Meeting Life Challenges

Ch-4 Psychological Disorders

Term-II

Ch-5 Therapeutic Approaches

Ch-6 Attitude and Social Cognition

Ch-7 Social influence and Group Processes

Practical : 30 marks

- * Development of case profile on different disorders.
- * Test administration on various psychological test any five : intelligence, personality, attitude, aptitude, self concept etc.