

Half-Yearly Examination Syllabus
Class XII(Science)

English

- 1) Comprehension passage**
- 2) Case based passage**
- 3) Notice writing**
- 4) Invitations and replies**
- 5) Letter to editor**
- 6) Application for job**
- 7) Chapter The last lesson**
- 8) Lost spring**
- 9) Deep water**
- 10)The Rat trap**
- 11)The tiger king**
- 12)Journey to the end of the earth**
- 13)Memories of childhood**
- 14)Poem my mother at 66**
- 15)Keeping quiet**
- 16)A Thing of beauty**
- 17)Aunt Jennifer's tigers**

PHYSICS

1. Electric charges and fields
2. Electrostatic Potential and Capacitance
3. Current Electricity
4. Magnetic effects of current and Moving charges
5. Magnetism and matters
6. Electromagnetic Induction
7. Alternating current
8. Electromagnetic Waves

CHEMISTRY

1. Haloalkane and haloarenes

2. Carbonyl compounds
3. Alcohol, phenol And ethers
4. Amines
5. Solutions

MATHS

Relation Function

Inverse Trigonometric functions

Matrices

Determinant

Continuity and Differertiability

Application of Derivatives

Indefinite Integral. Upto Ex 7.7

BIOLOGY:

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 (Only Taught Topics)

आरोह (काव्य खंड)

- * आत्म परिचय
- * पतंग
- * कविता के बहाने
- * बात सीधी थी पर
- * कैमरे में बंद अपाहिज
- गद्य खंड
- * भक्तिन
- * बाजार दर्शन
- * काले मेघा पानी दे

पूरक-पुस्तिका वितान

* सिल्वर वेडिंग

अभिव्यक्ति और माध्यम

* अप्रत्याशित विषयों पर लेखन

* विभिन्न माध्यमों के लिए लेखन

* विशेष लेखन: स्वरूप और प्रकार

* पत्रकारिता लेखन के विभिन्न

रूप व लेखन प्रक्रिया विधान

अपठित गद्यांश एवं पद्यांश

Physical Education

Unit 1-Management of Sporting Events: Planning, committees, tournament types (knock-out/league), and fixtures.

Unit 2- Children and Women in Sports: Exercise guidelines, postural deformities, and women's participation factors.

Unit 3 - Yoga as Preventive Measure for Lifestyle Disease: Asanas and pranayamas for obesity, diabetes, and other conditions.

Unit 4- Physical Education and Sports for CWSN: Understanding disabilities and creating inclusive, accessible activities.

Unit 5- Sports and Nutrition: Diet components, eating disorders, and performance nutrition.

Hin.Per.Ins (Tabla)

1.Compare - Jhaptaal,Sooltaal,Ektaal ,Chartaal,Rupaktaal & Tivra taal

2- Gharana - Farukhabad, Ajrada,Punjab

3- Biography - Pt.kisan Maharaj & Ut.Zakir Hussain

4- Layakari Notation

5- Kayada,Palta,Tihai,Peshkar making in 16 Matra Taal & 10 Matra taal

Mass Media:

UNIT - 1: Selling /Marketing/Exhibiting a Product Through Advertising

UNIT - 2: Introduction to Production Process

Chapter-1 : Film

Chapter-2: TV

Chapter-3: Print

Class 12th **yoga skill subject** (841)*

PART -A: Employability skills

UNIT -1 : communication skills-IV

*communication

*Effective communication

*listening skills

unit- 2: self- management skills-IV

*optimism (positive attitude) and motivation

*stress management

*Being Result -oriented

*self-Awareness

PART -B: SPECIFIC SKILLS

UNIT -1: introduction to yoga and Yogic practices -II

*meditative asanas

*basic type of Pranayama

*types of dhyana

*identify career options in Yoga

*sitting asanas

UNIT -2: INTRODUCTION TO YOGA TEXT -II

*concept of Aahara(diet) according to yogic text

*Basic of yogic
diet

*concept of mental health well -being according to Patanjali yoga

*concept of Healthy living style in Bhagwat Gita

*importance of subjective Experience in daily yoga practice

Hindustani music vocal

1. Brief study of the following -

Alankar,kan,Neend,khatka,Murli,Namak

2.Brief study of the following -

Gram,Murchhana,Alap,Taan

3.Historical development of time theory of Raag

4.Description of prescribed Taala Along with Taal Notation -Thah
,Duguna,Tigun,and Chaugun- jhaptala,Roopak,Dhamar Taal.

Food production

Chapter no. 1_ Indian regional cook

Chapter no. 2_ indian snack

Chapter no. 3_ indian sweets

Chapter no. 4_ indian gravies

Chapter no. 5_ presentation of Indian meals

Chapter no. 6_ food costing

PSYCHOLOGY

Chapter 1. Variations in Psychological Attributes

Chapter 2. Self and Personality

Chapter 3. Psychological Disorders
Chapter 4. Therapeutic Approaches

LIBRARY AND INFORMATION SCIENCE

1. Chapter 1 Library Management
2. Chapter 2 Organisation of library resources
(Classification DDC and CC)

Computer Science:

1. Functions
2. File Handling (Binary, Text, CSV)
3. Exception Handling
4. Computer Network

Information Technology:

1. SQL (DBMS, RDBMS)
2. Java (If-else, switch, loops, Arrays, strings with functions)
3. Unit-4 (Work Integrated Learning IT – DMA)

CLASS XII – ARTIFICIAL INTELLIGENCE (843)

Unit 1 – Python Programming II

- NumPy
- Pandas
- CSV Files
- DataFrames
- Basic Data Handling and Analysis

Unit 2 – Data Science Methodology

- Data Science Methodology
- Steps of Data Science Methodology
- Model Validation
- Model Performance Evaluation
- Confusion Matrix
- Accuracy
- Precision

- Recall
- F1 Score
- MSE and RMSE

Unit 3 – Making Machines See

- Introduction to Computer Vision
- How Machines See
- Working of Computer Vision
- Image Acquisition
- Image Pre-processing
- Feature Extraction
- Image Analysis
- Applications of Computer Vision
- Challenges and Future of Computer Vision
- Introduction to OpenCV
- Basic Image Processing using OpenCV

Unit 4 – AI with Orange Data Mining Tool

- Introduction to Data Mining
- Introduction to Orange Data Mining
- Orange Interface and Components
- Widgets
- Loading Datasets
- Data Table
- Select Columns
- Data Visualization
- Distributions
- Box Plot
- Scatter Plot
- Creating Basic Orange Workflows
- Interpretation of Visualizations
- ML and Image Processing using Orange

Unit 5 – Introduction to Big Data

- Big Data
- 6Vs of Big Data