

## **+2 SCIENCE ENGLISH**

1. Vistas
2. Flamingo
3. BBC Literary companion

### **APRIL**

1. The Last Lesson
2. My Mother at Six (Poem)
3. The Third Level
4. The Lost Spring
5. The Tiger King
6. Keeping Quiet (Poem)

#### **Writing Skill Activity**

Notice writing, letter to Editor  
Art Integrated activity based on the poem "My Mother of Sixty Six".

### **MAY**

Job Letter

7. The Thing of Beauty (poem).

Periodic Test I

### **JUNE**

Summer Vacation

### **JULY**

8. Deep Water
9. The Rattrap
10. A Roadside Stand (poem)
11. Aunt Jennifer's Tiger
12. Journey to the end of the Earth
13. The Enemy

#### **Writing skill**

1. Article writing

2. Formal invitation

**Subject Enrichment Activity:** Speech

### **AUGUST**

14. Indigo

15. Poet and Pancakes.

16. On the Face of it

17. Memories of childhood

**Writing Skill:** Replies Informal Invitation

**Art Integrated Activity:** Based on Chapter "On the Face of It."

**ASL** Assessment of speaking and listening skills.

### **SEPTEMBER**

Half Yearly Exams.

### **OCTOBER**

18. The Interview

19. Going Places

Report writing

Unseen Passages

**Subject Enrichment Activity:** News reading activity

### **NOVEMBER**

Entire Syllabus Revision

### **DECEMBER**

Pre Board I Exams

### **JANUARY**

Pre Board II Exams, Final Practical

### **FEBRUARY**

Final Exams.

# MATH

Books prescribed: NCERT (1+11)

## APRIL

- Chapter-3** Matrices
- Chapter-4** Determinants
- Chapter-2** Inverse trigonometry

## MAY

- Chapter-5** Continuity and differentiability  
Extra and board questions assignments  
Subject enrichment activity: to construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner.  
May periodic test (Chapter-2,3,4,5)

## JULY

- Chapter-6** Application of derivative
- Chapter-7** Integration
- Chapter-1** Relation and functions  
OBT  
Art integrated activity: To show the function is one-one and onto.

## AUGUST

- Chapter-8** Application of integral

**Chapter-9** Differential equations

**Chapter-10** Relation and functions

Monthly test

## **SEPTEMBER**

Half yearly exam

## **OCTOBER**

**Chapter-11** 3D

**Chapter-12** Linear programming problem

**Chapter-13** Probability

OBT

Subject enrichment activity: to find area under curve using integration.

Art Integrated Activity: To find conditional probability of an event

## **DECEMBER**

Pre-board 1

## **JANUARY**

Pre-board 2

## **FEBRUARY**

Final exam

# **BIOLOGY**

**Books prescribed:** NCERT, Pardeep's Publication.

**Practical:** Modern ABC

## **MARCH**

**Chapter 1** Reproduction in organism

**Chapter 2** Sexual Reproduction in Plants

**Chapter 3** Human Reproduction

## **APRIL**

**Chapter 4** Reproductive Health

**Chapter 5** Principles of Inheritance and Variations

**Chapter 6** Molecular Basis of Inheritance

## **MAY**

MAY UNIT EXAM

## **JUNE**

SUMMER VACATIONS

## **JULY**

**Chapter 7** Evolution

**Chapter 8** Human Health and disease

**Chapter 9** Strategies for food production

## **AUGUST**

**Chapter 10** Microbes in Human Welfare

**Chapter 11** Biotechnology (Processes)

**Chapter 12** Biotechnology (Application)

## **SEPTEMBER**

Half Yearly Exams

## **OCTOBER**

**Chapter 13** Organism and population

**Chapter 14** Ecosystem

**Chapter 15** Biodiversity

**Chapter 16** Environmental Issue.

## **NOVEMBER**

Revision + Pre-Board 1

## **DECEMBER**

Revision + Pre-Board 1

## **JANUARY**

Revision + Pre-Board-II

Practical In Serial order (Month wise)

# CHEMISTRY

## Books Prescribed:

- NCERT
- MODERNS'S abe by Dr. S. P. Jauhar
- Dinesh by S.K. Malhotra

## APRIL

1. Solutions
4. d-and f-Block Elements
6. Haloalkanes and Haloarenes
7. Alcohols, Phenols and Ethers

## ART-INTEGRATED ACTIVITY

1. Study and use of various media and techniques to the extent of their availability  
OBT (Open Book Test) and Monthly Test

## PRACTICALS:

### A. Surface Chemistry

- (a) Preparation of one lyophilic and one lyophobic sol  
Lyophilic sol-starch, egg albumin and gum  
Lyophobic sol-aluminium hydroxide, ferric hydroxide, arsenoussulphide.
- (b) Dialysis of sol-prepared in (a) above
- (c) Study of the role of emulsifying agents in stabilizing the emulsion of different oils.

## **B. Chemical Kinetics**

- (a) Effect of concentration and temperature on the rate of reaction between Sodium Thiosulphate and Hydrochloric acid.
- (b) Study of reaction rates of any one of the following:
  - (i) Reaction of Iodide ion with Hydrogen Peroxide at room temperature using different concentrations of Iodide ions.
  - (ii) Reaction between Potassium Iodate, ( $\text{KIO}_3$ ) and Sodium Sulphite: ( $\text{Na}_2\text{SO}_3$ ) using starch solution as an indicator (clock reaction).

## **SUBJECT ENRICHMENT ACTIVITY**

1. Make a Doodle Notes of Alcohols, Phenols and Ethers

## **ART-INTEGRATED ACTIVITY**

1. Make a Periodic Table Model to study the properties of d and f block elements.

## **MAY**

### **PRACTICAL:**

## **C. Thermochemistry**

Any one of the following experiments

- (a) Enthalpy of dissolution of Copper Sulphate or Potassium Nitrate.
- (b) Enthalpy of neutralization of strong acid (HCL) and strong base (NaOH).

- (c) Determination of enthalpy change during interaction (Hydrogen bond formation) between Acetone and Chloroform.
- (d) Electrochemistry Variation of cell potential in  $Zn/Zn^{2+} || Cu^{2+} | Cu$  with change in concentration of electrolytes ( $CaSO_4$  or  $ZnSO_4$ ) at room temperature.

Revision, Tests and Periodic Test.

## JUNE

Summer vacation

## JULY

- 2. Electrochemistry
- 3. Chemical Kinetics

### **ART-INTEGRATED PROJECT**

Electrochemistry in Action: Create a model or poster showing applications of electrochemistry (like batteries, electroplating)

### **PRACTICAL:**

#### **E. Chromatography**

- (a) Separation of pigments from extracts of leaves and flowers by paper chromatography and determination of  $R_f$  values.
- (b) Separation of constituents present in an inorganic mixture containing two cations only (constituents having large difference in  $R_f$  values to be provided)

- F. Preparation of Inorganic Compounds Preparation of double salt of Ferrous Ammoniums Sulphate or Potash Alum. Preparation of Potassium Ferric Oxalate.
- G. Preparation of Organic Compounds Preparation of any one of the following compounds
- i) Acetanilide                      ii) Di-benzal Acetone
  - iii) p-Nitroacetanilide      iv) Aniline yellow or 2-NaphtholAnilinedye.

### **AUGUST**

5. Coordination Compounds
9. Amines
- OBT (Open Book Test) and Monthly Test.
- Revision and Tests.

#### **PRACTICAL:**

- H. Tests for the functional groups present in organic compounds: Unsaturation, alcoholic phenolic, aldehydic, ketonic, carboxylic and amino (Primary) groups.
- L. Characteristic tests of carbohydrates, fats and proteins in pure samples and their detection in given foodstuffs.
- J. Determination of concentration/molarity of  $\text{KMnO}_4$  solution by titrating it against a standard solution of:
- (a) Oxalic acid,

- (b) Ferrous Ammonium Sulphate (Students will be required to prepare standard solutions by weighing themselves)

### **SUBJECT ENRICHMENT ACTIVITY**

#### **1. PROJECTS**

Scientific investigations involving laboratory testing and collecting information from other sources.

2. Make a Mind Map of important reaction of Amines

### **ART-INTEGRATED ACTIVITY**

1. Study of visual resources (at home and in the surroundings) and means of creative expression.

## **SEPTEMBER**

Revision and Half yearly Exam.

## **OCTOBER**

8. Aldehydes, Ketones and Carboxylic Acids

10. Biomolecules

Revision and Tests.

### **SUBJECT ENRICHMENT ACTIVITY**

1. Make a Power Point Presentation on Distinguishing Tests in Organic Compounds.

### **ART-INTEGRATED PROJECT**

1. Create models or posters explaining structure and function of biomolecules.

### **PRACTICAL:**

- K. Qualitative analysis

Determination of one anion and one cation in a given salt

Cations:  $\text{Pb}^{2+}$ ,  $\text{Cu}^{2+}$ ,  $\text{As}^{3+}$ ,  $\text{Al}^{3+}$ ,  $\text{Fe}^{3+}$ ,  $\text{Mn}^{2+}$ ,  $\text{Ni}^{2+}$ ,  $\text{Zn}^{2+}$ ,  
 $\text{Co}^{2+}$ ,  $\text{Ca}^{2+}$ ,  $\text{Sr}^{2+}$ ,  $\text{Ba}^{2+}$ ,  $\text{Mg}^{2+}$ ,  $\text{NH}_4^+$

Anions:  $(\text{CO}_3)^{2-}$ ,  $\text{S}^{2-}$ ,  $\text{NO}_2^-$ ,  $\text{SO}_3^{2-}$ ,  $\text{SO}_3^{2-}$ ,  $\text{SO}_4^{2-}$ ,  $\text{NO}_3^-$ ,  $\text{Cl}^-$ ,  
 $\text{Br}^-$ ,  $\text{I}^-$ ,  $\text{PO}_4^{3-}$ ,  $\text{C}_2\text{O}_4^{2-}$ ,  $\text{CH}_3\text{COO}^-$

(Note: Insoluble salts excluded)

## **NOVEMBER**

Revision, Tests and Preliminary Exam

## **DECEMBER**

Revision and Pre-Board Exam-1

## **JANUARY**

Revision and Pre-Board Exam-2

## **FEBRUARY**

Final Board Practical Exam and Final Board Exam

# **HINDUSTANI MUSIC VOCAL**

## **UNIT-1**

- 1.1 Brief study of the following: Alankas, Kan, Meend, Khatka, Murki and Gonak.
- 2.2 Brief study of the following: Gram, Murchhova, Alap, Tana.

## **UNIT-2**

- 2.1 Historical development of time theory of Ragas.

## **UNIT-3**

- 3.1 Detail study of the following granths.
  - i. Sangeet Ratnakar
  - ii. Sangeet parijot
- 3.2 Life sketch and contribution of the following singers towards Indian classical music
  - i. Ustad Faiyaz Khan Ji
  - ii. Ustad Bade Ghulam Ali Khan Ji
  - iii. Pandit Shri Krishna Rao Shankar Ji

## **UNIT-4**

- 4.1 Description of prescribed talas along with notation with thah, dugun, tigun & chaugun- Tool- Jhaptal, Roopak and Dhamar.
- 4.2 Turning of tanpura in detail along with the description of tanpura and its body parts.

## **UNIT-5**

- 5.1 Critical study of prescribed pages along with recognizing ragas from phrases of swaras and elaborating them excluding raga shudh versions.

- 5.2 Writing in notation the composition of prescribed ragas: Bhairav, Bageshwari and Malkaus.

**Practical Coverage**

1. One vilambhit khayal with simple elaborations and few tanas in any of the prescribed pages.
2. One dutt khayal with simple elaborations and few tanas in following ragas:
  - i. Rag Bhairav
  - ii. Bageshwari
  - iii. Malkaus
3. One tarana and one dhanur with dugun and chaugun un any of the prescribed pages.
4. Ability to recognise the pages from the phrases of swaras.
5. Recitation of theka of roopak, jhaptal and dhumar with dugun, tigun, chaugun and beats on hands.
6. Turning of tanpura.

# PHYSICAL EDUCATION

**Book Prescribed:** SP Publications

## APRIL

- Unit I** Management of sports events  
Unit II- Children & women in sports

## MAY

- Unit III** Yoga for lifestyle diseases

## JULY

- Unit IV** Physical education for CWSN  
**Unit V** Sports & Nutrition

## AUGUST

- Unit VI** Test & Measurement in sports

## SEPTEMBER

Half yearly examination

## OCTOBER

- Unit VII** Physiology & injuries in sports  
Unit VIII- Biomechanics in sports

## NOVEMBER

- Unit IX** Physiology & sports  
**Unit X** Training in sports

## DECEMBER

Revision

## JANUARY

Pre-board examination

# **PAINTING**

**Prescribed book-** Panoramic Indian painting-XII

## **APRIL**

|                  |                                                                |
|------------------|----------------------------------------------------------------|
| <b>Theory</b>    | Chapter-The Rajasthani and Pahari school of miniature painting |
| <b>Practical</b> | Still life.                                                    |

## **MAY**

|                  |                                |
|------------------|--------------------------------|
| <b>Practical</b> | 1. Sketching<br>2. Composition |
|------------------|--------------------------------|

## **JULY**

|                  |                                                              |
|------------------|--------------------------------------------------------------|
| <b>Theory</b>    | Chapter- The Mughal and deccan school of miniature painting. |
| <b>Practical</b> | Landscape                                                    |

## **AUGUST**

|                  |                                    |
|------------------|------------------------------------|
| <b>Theory</b>    | Chapter- Bengal school of painting |
| <b>Practical</b> | Advertisement                      |

## **SEPTEMBER**

Half yearly examination.

## **OCTOBER**

|                  |                                      |
|------------------|--------------------------------------|
| <b>Theory</b>    | Chapter- Modern trends in Indian art |
| <b>Practical</b> | Folk art                             |

## **NOVEMBER**

|                   |               |
|-------------------|---------------|
| <b>Practical-</b> | 1. Still Life |
|                   | 2. Landscape  |

## **DECEMBER**

Revision & Pre-board exam-1

## **JANUARY**

Revision & Pre-board exam-2

## **FEBRUARY**

Final Examination

# INFORMATION TECHNOLOGY

## Book Prescribed:

Publisher's Name : CBSE NCERT

### APRIL

- Part : A**            Unit 1 : Communication Skills : IV  
**Part : B**            Unit 1 : Database Concepts-RDBMS tools  
**Part : A**            Unit 2 : Self-Management Skills IV

### MAY

Revision and May Periodic Test

### JULY

- Part : A**            Unit 3 : ICT Skills – IV  
**Part : B**            Unit 2 : Operating Web based Applications  
**Part : B**            Unit 3 : Java – Fundamentals of Java  
                         Programming (First Half)

### AUGUST

- Part : A**            Unit 4 : Entrepreneurial Skills – IV  
**Part : B**            Unit 3 : Java – Fundamentals of Java  
                         Programming (Second Half)  
**Activity :**        **Quiz will be conducted based on Java &  
                         My SQL**

### SEPTEMBER

Half-Yearly Examination

## **OCTOBER**

**Part : B**            Unit 4: Work Integrated Learning – IT-DMA

**Part : A**            Unit 5 : Green Skills IV

## **NOVEMBER**

Preliminary Test

## **DECEMBER**

Pre-board Examination - 1

## **JANUARY**

Pre-board Examination - 2

## **FEBRUARY**

Final Examination