

Art integrated activity:
To find conditional probability of an event.

December: Pre board-1

January: Pre board-2

+2 (Medical/Non Medical)

ENGLISH

Books Prescribed:

i) Vistas ii) Flamingo iii) BBC Literary Companion

April:

- i) The last lesson
My Mother at Sixty Six
- ii) The Third Level
- iii) The Lost Spring
- iv) Keeping Quiet
- v) The Tiger King

Writing skills:

Notice Writing, Letter to Editor, Job Letter

Activity: Art integrated activity based on poem

My Mother at Sixty Six

May:

- i) The thing of beauty
- ii) The Rattrap
- iii) Aunt Jennifers Tigers

Writing skills:

Formal and informal invitations, article writing

Activity: Subject enrichment activity

June: Summer vacation

July:

- i) Journey to the End of the Earth
 - ii) A Roadside Stand
 - iii) Poets and Pancakes
- ASL Writing Skills: Formal and Informal Invitations

August:

- i) The Interview
- ii) The Enemy
- iii) On the face of it
- iv) Indigo

Writing skills: Replies
Activity: Art integrated activity- "On the Face of it."
ASL

September: Half yearly exam

October:

i) Going places
ii) On the face of it
iii) Memories of childhood
Subject enrichment activity: News reading activity.
Writing skills: Report Writing

November: Entire Syllabus Revision

December: Pre Board- I Exam

January: Pre Board- II Exams, Practical Exam

February: Final Exam

MATHEMATICS

April:

Ch-3 Matrices
Ch-4 Determinants
Ch-5 Continuity and Differentiability
Subject enrichment activity:
To construct an open box of maximum volume from a given rectangular sheets by cutting equal squares from each corner.

May:

Ch-6 Application of derivative
May periodic test (Ch-3, 4, 5 and 6)

June: Summer vacations

July:

Ch-2 Inverse trigonometry
Ch-7 Integration
Ch-12 linear programming problem
Art integrated activity:
To show the function is one and onto.

August:

Ch-8 Application of integrals
Ch-9 Differential equations
Ch-10 Relation and functions

September:

Half yearly exams.
Subject enrichments activity:
To find areas under current using integration

October:

Ch-10 Vector
Ch-11 Three dimensional geometry
Ch-13 Probability

BIOLOGY

May:

Practicals:

C. Thermochemistry

Any one of the following experiments

- Enthalpy of dissolution of copper sulphate or potassium nitrate
 - Enthalpy of neutralisation of strong acid (HCl) and strong base (NaOH)
 - 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 ($CuSO_4$ or $ZnSO_4$) at room temperature.
Revision, Test and First Unit Test

June: Summer vacations

July:

2. Electrochemistry

3. Chemical kinetics

Practicals:

E. Chromatography

- Separation of pigments from extracts of leaves and flowers by paper chromatography and determination of R_f values.
 - Separation of constituents present in an inorganic mixtures 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 ammonium sulphate or potash alum. Preparation of potassium ferric oxalate
- G. preparation of organic compound preparation of any one of the following compounds-
- Acetanilide
 - Di-benzale acetone
 - P-Nitroacetanilide
 - Aniline yellow or 2 naphtholanilinedye.

Books Prescribed:

- NCERT
- Pardeep's Publication - 12
- Elementary - 12
Practical- Modern ABC

April:

Ch-1 Reproduction in organism

Ch-2 Sexual reproduction in plant

Ch-3 Human reproduction

Ch-4 Reproductive health

Practicals:

- Prepare a temporary mount to observe pollen germination
- Study the plant population density by quadrant method
- Study the plant population frequency by quadrant method

May:

Ch-5 Principles of inheritance and variation.

Ch-6 Molecular basis of inheritance

Practicals:

- Temporary mount of onion root.
- Isolation of DNA from plant

June: Summer vacations

July:

Ch-7 Evolution

Ch-8 Human health and disease

Ch-9 Strategies for food production

Practicals:

Spotting

- Adaptation for pollination
- T.S of testis and ovary
- T.S of blastula

August:

Ch-10 Microbes in human welfare

Ch-11 Biotechnology (processes)
Ch-12 Biotechnology (applications)
Practicals:
i) Meiosis
ii) Mendelian inheritance
iii) Pedigree charts
iv) Controlled pollination

September:

Ch-13 Organism and Population

Half Yearly Exams

October:

Ch-14 Ecosystem

Ch-15 Biodiversity

Ch-16 Environmental Issue

Practicals:

- i) Common disease causing organisms-
ascaris, entamoeba etc.
- ii) Symbiotic association in root nodules
- iii) Flashcard/charts homologous/analogues

November: Revision of syllabus

December: Pre-board-I

January: Pre-Board-II

February: Revision and Board Exams.

CHEMISTRY

Books Prescribed:

*NCERT

*Modern's abc by DR. S.P. Jauhar

*Dinesh by S.K Malhotra

April:

1. Solutions

4. d- and f- block elements

6. Haloalkanes and Haloarines

7. Alcohols, Phenols and Ethers

Practicals:

A. Surface chemistry

a) Preparation of one lyophilic and one lyophobic sol

Lyophilic sol- starch, eggalbumin and gum

Lyophobic sol- aluminium hydroxide, ferric hydroxide,
arsenous sulphide

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 (KIO_3) and sodium
sulphite (Na_2SO_3) using starch solutions as an indicator
(clock reactions)

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.

INFORMATION TECHNOLOGY

Books Prescribed:

1. Information technology (802) Study material
2. Employability skills

Publisher's Name: C.B.S.E. N.C.E.R.T.

April:

Part-A

Unit-1 Communication skills III

Part-B

Unit-1 Computer organization

May:

Part-A

Unit-2 Self management skills III

July:

Part-B

Unit-2 Networking and internet

August:

Part-B

Unit 3 Office automation tools

Part-A

Unit-3 ICT-Skills-III

Activity: Chart on different networking components

September: Half yearly examination

October:

Part-A

Unit-4 Entrepreneurial skills III

Part-B

Unit-4 RDBMS

Part-A

Unit-5 Green skills II

August:

5. Coordination compounds

9. Amines

Revision and tests

Practicals

H. Tests for functional group present in organic compound's unsaturation, alcoholic, phenolic, aldehydic, ketonic, carboxylic and amino (primary) groups.

i. Characteristics test of carbohydrates, fats and proteins in pure samples and their detection in given foodstuffs.

j. Determination of concentration/molarity of 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 reactions of amines.

September: Revision and Half Yearly Exams

October:

8. Aldehydes ketones and carboxylic acids

10. Biomolecules

Revision and Test

Subject enrichment activity:

Make a power point presentation on distinguishing tests in organic compounds.

Art integrated activity: Construction of DNA model

Practicals:

K. Qualitative analysis

Determination of one anion and one cation in given salt

Cations-

Pb^{2+} , Cu^{2+} , As^{3+} , Al^{3+} , Fe^{3+} , Mn^{2+} , Ni^{2+} , Zn^{2+} , Co^{2+} , Ca^{2+} , Sr^{2+} , Ba^{2+} , Mg^{2+} , NH_4^+

Anions- $(\text{CO}_3)^{2-}$, S^{2-} , NO_2^- , SO_4^{2-} , SO_3^- , NO_3^- , Cl^- , BR^- ,
 I^- , PO_4^{3-} , $\text{C}_2\text{O}_4^{2-}$, CH_3COO^-

(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 Practicals Exam and
Final Board Exams

HINDI MUSIC VOCAL Code - 034

मार्च:

हिन्दुस्तानी संगीत की जानकारी एवं तालों की जानकारी।

अप्रैल:

परिभाषाएं— अलंकार, कण, रागों का समय—सिद्धान्त,
ताल—झपताल एवं राग भैरव।

मई:

मींड, खटका (परिभाषाएं) ग्रंथ (रत्नाकर) संगीत— रत्नाकर,
तालें—रूपक एवं जीवनी कृष्ण राव शंकर।

जून: प्रैक्टिकल फाइल

जुलाई:

परिभाषाएं— मुर्की, गमक, जीवनी फैयाज़ खाँ, तानपुरे का
विस्तार विवरण, राग बागेश्वरी, ताल धमार

अगस्त:

परिभाषाएं— ग्राम, मूर्च्छना, संगीत—परिजात (ग्रंथ)
रागों को पहचान कर लिखो।

सितंबर:

परिभाषाएं— आलाप, तान, राग मालकौंस,
जीवनी उस्ताद बड़े गुलाम अली खाँ।

अक्टूबर: दोहराई

PHYSICAL EDUCATION

March:

1. Management of sporting events

April:

2. Children and women in sports
3. Yoga as preventive measure for lifestyle disease

May: Practical work

Revision and periodic test

July:

4. Physical education and sports for (CWSN)
5. Sports and nutrition

August:

6. Test and measurement in sports
- Revision and test

September:

7. Physiology and injuries in sport
8. Biomechanics and sports

October:

9. Psychology and sports
- Revision and test

November:

Part-B

Unit 5 Fundamental of Java

Preliminary test

Activity: Practical file based on Java and My SQL

December: Revision

January: Exams

February: Revision and Final Exams

PAINTING

Prescribed Book: Panoramic Indian Painting

April:

U-1 The Rajasthani School

1. Origin and Development
 2. Sub-schools- Mewar, Bundi, Jodhpur, Bikaner, Kishangarh And Jaipur.
 3. Main features of Rajasthani School.
 4. Paintings-
 1. Maru-Ragini
 2. Chaugan players
 3. Krishna on swing
 4. Radha (Bani-Thani)
 5. Bharat meets Rama at Chitrakuta
- Practical: Composition-Mosaic art

May:

U-1 The Pahari School

1. Origin and Development
2. Sub-schools- Basohli, Guler, Kangra, Chamba
3. Main features of Pahari Schools.
4. Painting- 1. Krishna with Gopis
5. Nand, Yashoda and Krishna with Kinsmen going to Vrindavan.

May Unit Test

June: Summer vacations.

July:

U-2 The Mughal school

1. Origin and Development
 2. Main features of Mughal school.
 3. Paintings- 1. Krishna lifting Mount Govardhana.
 2. Falcon on a bird-rest
 3. Kabir and Raidas
 4. Marriage procession of Dara Shikhan
- Practical: 1. Landscape 2. Still Life

Activity: Lippan art (art integrated)

August:

U-2 The Deccan school

1. Origin and Development
 2. Main features of Deccan school
 3. Paintings:
 1. Hazrat Nizamuddin Auliya and Amir Khusro
 2. Chand Bibi playing polo
- Practicals:
 1. Composition- folk art
 2. Advertisement

September: Half Yearly Exams

October:

U-3 The Bengal school and modern art.

Bengal school paintings-

1. Journeys end
 2. Shiv and Sati
 3. Radhika
 4. Meghdoot
- Modern art paintings-
1. Rama vanquishing the pride of ocean.
 2. Mother and child
 3. Haldi grinders
 4. Mother Teresa

Graphic prints:

1. Children
2. Devi
3. Of walls
4. Man, Woman and Tree

Sculptures-

1. Triumph of labour
2. Santhal family
3. Cries unheard
4. Ganesha

Activity: Project of artist

November: Revision of pre board-1

December: Pre board-2