



Sacred Heart Convent Sr. Sec. School

Tejli Road, Jagadhri, Haryana, India

HOLIDAY HOMEWORK

2025-26

CLASS- XII A/B

CHEMISTRY

1. Complete your investigatory project which you will be allotted according to your Roll numbers through whatsapp group. (except the observation part that would be added after performing your project). The project has to on A3 sheets and handwritten.

PROJECT FILE SHOULD CONTAIN PAGES IN FOLLOWING ORDER:

- a. CERTIFICATE
- b. ACKNOWLEDGEMENT
- c. AIM OF PROJECT
- d. INTRODUCTION
- e. THEORY
- f. APPARATUS REQUIRED
- g. PROCEDURE
- h. OBSERVATION
- i. CONCLUSION
- j. PRECAUTION
- k. BIBLIOGRAPHY

****STRICTLY ADHERE TO ABOVE MENTIONED ORDER**

2. Make a list of all the name reactions in chapter 6 and 7 and write them in your chemistry register.
3. Write all the reaction mechanisms in chapter 6 . Do their ncert intext and back exercise questions in chemistry notebook.
4. Write chemical reaction to distinguish between CCl_4 and CHCl_3 .
5. Write all the formulae of Chapter 1 and 2 and do PYQs of last years. Material will be sent to you through whatsapp group.
6. Do all Questions of exercises of CHAPTER 1 and 2 .
7. All assignments should be done in separate register . Timely submission (on day of reopening) of assignment is must

BIOLOGY:-

- Q. 1- Make "Investigatory project" with following heading in it.

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- First page- topic, submitted to/submitted by
- Certificate
- Acknowledgment
- Contents
- Introduction
- Theory
- Observation
- Conclusion
- Bibliography

Q.3- Revise the chapters UNIT 1 CH 2,3,4 and practice diagrams .

INFORMATICS PRACTICES (065):-

1. Page No.3.31 Q No. 18	CLUB TABLE
2. Page No.3.32 Q No. 19	LOANS TABLE
3. Page No.3.47 Q No. 14	FACULTY TABLE
4. Page No.3.47 Q No. 15	EMP & DEPT TABLE
5. Page No.3.49 Q No. 19	SCHOOLBUS TABLE
6. Page No.3.49 Q No. 20	CUSTOMERS TABLE
7. Page No.3.50 Q No. 21	WORKER & PAYLEVEL TABLE
8. Page No.3.51 Q No. 24	TEACHER TABLE

PHYSICS

- ✓Completion of theory note books {as per the syllabus completed }
- ✓Prepare & Record minimum 10 MCQ questions / answers from each topic as per NCERT text.
- ✓Solve , memorise & record numerical { as per syllabus completed } from NCERT books in note book



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- ✓ Solve the questionnaire as uploaded on e- care.
- ✓ Completion of demonstration experiment as per the assigned topic & making of demonstration file.
- ✓ Completion of practical file as per the number of practical completed.
- ✓ Submission of theory note books & practical file on opening day
- ✓ On opening day of school , prepare for the evaluation of Unit -2 : Current & electricity.

SHCS: PHYSICS-XII Syllabus Update[Theory]

Unit I: Electrostatics

Chapter–1: Electric Charges and Fields

Electric charges, Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).

Chapter–2: Electrostatic Potential and Capacitance

Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in

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parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only).

Unit II: Current Electricity

Chapter–3: Current Electricity

Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.

Syllabus Update (Laboratory)

1. Prism
2. Refractive index of water by concave mirror
3. Refractive index of glass
4. Focal length of convex lens by optical bench
5. Lateral Displacement in glass slab

PHYSICAL EDUCATION:-

Practical Syllabus

Pg.1- History (for Athletics)

Pg.2- Athletics event Men& Women

- Division of Athletics Events
- Standard track (only Marking & then solve)

(It is a 400m track)

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- Lane & line
- Stagger start
- Sprint races
 - *Bunch start
 - *Medium start
 - *Angulatory start

- Running form
- Finishing of the race
- Hurdle race
- Relay race
-

Then a blank page (on blank page with field event)

- Field Event –

1) Jumping event – Long jump

2) Throwing Event (On blank page)- Shot put

- SAI Khelo India Test
 - BMI
 - Flaming's
 - Plate tapping
 - Sit & Reach test
 - Shutter run
 - 50m Speed test
 - Strength test
 - *Pull ups
 - *Sit ups
 - * Push ups

MATH:-

1. Matrices & Determinants:

Revise; Matrix Multiplication, Transpose of a Matrix, MCQ From book on it.

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Determinants, area of triangle, MCQ's Matrices contd: Inverse of a matrix, properties, Matrix Method, practical app. Ques & numericals,

MCQ's from Book.

Differentiation:

Inverse Triangle Functions, exp. & Log, functions & Implicit Functions. And chapter MCQ from Book.

Application of derivatives:

Rate of change, Increasing & Decreasing Functions, Local maxima & local Min. numericals & practical problems. MCQ's from book.

ENGLISH-

1 Complete the project (audio/video and files)

2 Prepare the following topics for speaking skills assessment

a) Is media truly independent in our country.

b) Does censorship in movie industry protect culture or limit artistic freedom

c) Should powerful nations intervene in in global conflicts.

d) Should countries be obliged to accept refugees from war zones

note all to be prepared either for or against

3 Solve bbc practice questions of the chapters done in class (from each module write 5 questions)

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