

ESTEEM PUBLIC SCHOOL

A Senior Secondary School (10+2)

Affiliated to CBSE, Delhi

HOLIDAY HOMEWORK OF SUMMER VACATION

CLASS - XII A

Chaliyama (Only for the students of the Chaliyama branch)

ENGLISH

- Homework :** In your English copy make a poster to show the advantages and disadvantage of educational apps.
- Assignment :** Make an album on some common social issues shown in literature. 1) Poverty, 2) Child Labour, 3) Illiteracy, 4) Social inequality, 5) Fear and insecurity. (Use stick file for it)

MATHS

- Activity work:** 1. To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l \perp m\}$ is symmetric but neither reflexive nor transitive.
2. Make an Activity by drawing the graph of $\sin^{-1} x$ using the graph of $\sin x$ and demonstrate the concept of mirror reflection (about the line $y = x$).
- Home Work:** 1. Solve the questions of following exercises:
Ch - 1 Relation and function
Ex-1.1: Q.No - 1,2,5, 6.
Ex-1.2: Q.No - 1,3, 4,5,7.
Ch - 2 Inverse Trigonometric function
Ex-2.1: Q.No - 1 (All)
Ex-2.2: Q.No - 1,2,4,6.

SCIENCE (PHYSICS)

- Home Work :** 1) Derive the formula for a parallel plate capacitor.
2) Derive the relation between current & Drift velocity.
3) Use Gauss law to find the electric field due to an infinitely long straight wire.
4) Derive the field at a point on the axial and equipotential line of a dipole.
- Assignment :** 1) Verify Ohm's Law by plotting a V-I graph on a File.
2) Finding an unknown resistance of a wire using Meter Bridge.
- Project :** To study the series and parallel combination of the resistor make a model & use these resistor for a desired circuit.

SCIENCE (CHEMISTRY)

- Home Work :** Learn and write Q/Ans of CH - 1. Solution CH - 2. Electrochemistry in text and exercise, make proper notes.
- Assignment :** Describe Henry's law, principle, formula, concept application with diagram on a chart paper.
- Project :** a) Study of the presence of oxalate ions in guava fruit at different stages of ripening.
b) Study of Quantity of casein fruit in different sample of milk.

SCIENCE (BIOLOGY)

Home Work : If a plant produces flowers but no fruits. What could be the possible reasons?

Assignment : Search about the agents responsible for pollination in plants and classify them into different groups.

Project Work : Draw a well labelled diagram of pollen tube entering the ovule showing male gametes egg cell and polar nuclei.

PHYSICAL EDUCATION

Assignment : Make an assignment on tournaments conducted for physically handicapped Sports person.

Project Work: Make a project on importance of nutrition for the players.

INFORMATION TECHNOLOGY

Assignment : 1) Write down at least 15 Java program in a stick file.
2) Write down at least 10 queries on MySQL using a table.

Project Work : Write a Java project to generate an electricity bill for XYZ Power Corporation Limited to send to his customers. The following is the format to display the bill.

XYZ Power Corporation Limited
New Delhi

Customer ID	: -----
Customer Name	: -----
Previous Meter Reading	: -----
Present Meter Reading	: -----
Total Units Consumed	: -----
Fixed Amount & Maintenance Charges	:Rs. -----
Total Amount	:Rs. -----
Tax (10.5%)	:Rs. -----

Amount Payable	:Rs. -----

----- End of the Holiday Homework -----

ESTEEM PUBLIC SCHOOL

A Senior Secondary School (10+2)

Affiliated to CBSE, Delhi

HOLIDAY HOMEWORK OF SUMMER VACATION

CLASS – XII A Tungri (Only for the students of the Tungri branch)

ENGLISH

- Homework :-** Be updated with the notes of all the chapters taught till date.
Project :- In a chart paper, frame a poem in your own words decoratively.

SCIENCE (PHYSICS)

- Assignment :-** (1) Write on Gold-leaf electroscope with a diagram on an A4 size paper and prepare a file.
(2) Exercise – 01: Learn and write Q 1.1, Q 1.2, Q 1.4, Q 1.5, Q 1.6, Q 1.7
Project :- (3) Write on Electric charge and its properties with a diagram.

SCIENCE (BIOLOGY)

- Assignment :-** Prepare a project file (5-7 pages) on any one topic:
* HIV/AIDS Awareness.
* Drug Abuse.
* Lifestyle Diseases (Diabetes)
Include:- Introduction, diagrams, data, conclusion and bibliography.
Project Work :- Prepare a poster on awareness of STIs. Write a short report on family planning in India.

IT (802)

- Homework :-** Learn and write the Q/A of Ch – 1 & 2 (2 times).
Assignment :- (i) Write about the benefits of Active listening at work fare.
(ii) Write and explain the ways to build a good personality on an A4 size paper.
Project :- Make a chart or model on communication cycle.

----- *End of the Holiday Homework* -----