**WINTER HOLIDAY HOMEWORK 2019-20**

**CLASS: XI | SUB: CHEMISTRY**

**LOVE HOUSE:**

Observe different chemicals present in our food and their adverse effect on health.

**ZEAL HOUSE**:

Observe different cells or batteries around yourselves. Mention various chemical reactions involved in it.

**HOPE HOUSE:**

Describe various vitamins present in eatables. Mention origin, structure, as well as applications of vitamins.

**UNITY HOUSE:**

Describe various cleansing agent used in our school and also mention chemistry involved in it.

**COMMON QUESTIONS FOR ALL:**

Describe various alloys used in automobile as well as aircraft industries.

**WINTER HOLIDAY HOMEWORK 2019-20**

**CLASS: XI | SUB: HINDI OPTIONAL**

**COMMON QUESTIONS FOR ALL:**

* **,d lSEiy isij viuh mRrj iqfLrdk eas gy djasA**
* **nks Lojfpr jpuka, dfork@dgkuh@ys[kA**

**WINTER HOLIDAY HOMEWORK 2019-20**

**CLASS: XI | SUB: MATHS / OPTIONAL**

**LOVE HOUSE:**

“Sequence and series”: Introduction of sequence and series along with contribution of Mathematicians. Description of A.P. , G.P. , H. P., A.G. and special sequence.

**ZEAL HOUSE**:

“Binomial Theorem”: Contribution of mathematics. Formulation of binomial theorem for natural indices. Introduction of Demovere’s theorem related to binomial theorem for rational indices.

**HOPE HOUSE:**

“Probability” : Contribution of different mathematicians related to probability.

 Description of sample space and various kinds of events associated to theory of probability.

**UNITY HOUSE:**

“Sets & Functions”: Contribution of different mathematicians to defins sets and formulated set theory. Definition of various types of sets and functions and types of function.

**COMMON QUESTION FOR ALL:**

Explain and give the illustrations. Infinite series, exponential series & functions, logarithmic series & function.

**WINTER HOLIDAY HOMEWORK 2019-20**

**CLASS: XI | SUB: ACCOUNTANCY**

**LOVE HOUSE:**

Give a note on “GST”

**ZEAL HOUSE**:

 Explain role of Accounting to Economy

**HOPE HOUSE:**

Give a note on “Demonetisation”

**UNITY HOUSE:**

Give a note on “Role of corporate sector in society”

**COMMON QUESTIONS FOR ALL:**

Collect information of transaction of a small business (or from any resources) record in Journal. Prepare ledger account, trial balance and prepare trading and profit and loss account. After that prepare balance sheet of their firm for an accounting period.

**WINTER HOLIDAY HOMEWORK 2019-20**

**CLASS: XI | SUB: GEOGRAPHY**

As a geography students each students should take the effort to “save life, save earth.”

Each student should plant a tree & make a project file of it. On a A4 sheet, write the detail about the plant:

* Name Of Plant
* Hindi Name
* Scientific Name
* Kingdom Belong
* Medicinal use

Each student’s A4 sheet will be collected & make a complete file.

Each student will take two photographs with their family members near the plant and paste on the file.

**WINTER HOLIDAY HOMEWORK 2019-20**

**CLASS: XI | SUB: PSYCHOLOGY OPTIONAL**

Note: Collect information on any one of the following topics and make a project on it.

On chart papers, depict the theme using pictures, illustrations, graphs etc.

Topics:

* obsessive compulsive disorder
* applications of psychology
* Piaget’s stages of cognitive development
* Creative visualization- a tool to manifest your dreams
* Mind and brain: are they related?

**LOVE HOUSE:**

Make a collage by different newspapers cutting on the topic different stages of human life.

**ZEAL HOUSE**:

 Make a collage by different newspaper cutting on the topic psychologists.

**HOPE HOUSE:**

Make a collage by different newspaper cutting on the topic eating disorder.

**UNITY HOUSE:**

Make a collage by different newspaper cutting on the topic ADHD

**WINTER HOLIDAY HOMEWORK 2019-20**

**CLASS: XI | SUB: BIOLOGY**

**LOVE HOUSE:**

Leaves are modified in to tendril, spine, scale, phyllode, pitcher and bladder to perform special function. Illustrate the statement with suitable example.

**ZEAL HOUSE**:

Describe the various part of an Angiospermic plant with a well labelled diagram.

**HOPE HOUSE:**

What are the reasons that you can think of for the Asthropods to Constitute the largest group of the animal kingdom?

**UNITY HOUSE:**

Illustrate various patients in your locality who are suffering from viral diseases. Describe home remedies for them.

**COMMON QUESTION FOR ALL:**

What are the modifications that are observed in birds that help them to fly?

**WINTER HOLIDAY HOMEWORK 2019-20**

**CLASS: XI | SUB: PHYSICAL EDU. OPTIONAL**

Solve all the questions in notebook:

1. Define test, measurement and evaluation. Highlight their importance in sports.
2. How is BMI conduct? Give index for its various categories.
3. Explain the Sheldon’s Somato Typing?
4. Define anatomy of physiology. Highlight the importance of their subject.
5. Explain the working of heart. Give the importance of blood.
6. Describe the term second wind and oxygen debt,
7. State kinesiology and biomechanics. Explain its importance.
8. Define equilibrium and balance. Explain the principles of balance.
9. Discuss the articulation formation of hip joint.
10. Explain prohibited substances & their side effects?
11. Discuss the difference between growth and development.
12. What is warming-up? How is it performed? Give its importance.
13. Explain limbering down. Explain its benefits.
14. Define Doping. What are the substances used in doping?
15. Describe the Doping test procedure?

**WINTER HOLIDAY HOMEWORK 2019-20**

**CLASS: XI | SUB: MUSIC OPTIONAL**

1. Practise all ragas at your home.
2. Study the brief history of all the Gharanas.

**WINTER HOLIDAY HOMEWORK 2019-20**

**CLASS: XI | SUB: ECONOMICS**

Common questions for all:

1. Solve one question each o quaubile: Deviation, Mean Deviation, standard Deviation, correlation for the series:
2. Individual
3. Dissect series
4. Continuous series
5. **Love House:**

Prepare a questionnaire about feedback of a product of your choice.

1. **Unity House:**

Write about different methods of sampling with their merits and demerits.

1. **Hope House:**

Write a note on organization of data and presentation of data along with their methods.

1. **Zeal House:**

Explain primary and secondary data along with methods to collect them.

**WINTER HOLIDAY HOMEWORK 2019-20**

**CLASS: XI | SUB: PHYSICS**

**Common questions for all:**

Why the food is cooked faster in the pressure cooker? Why it becomes difficult to cook food at the mountains?

**HOPE HOUSE:**

Explain what happens when the load on a metal wire suspended from a rigid support is gradually increased. Illustrate your answer with a suitable stress-strain graph.

**LOVE HOUSE:**

Derive an expression for the rise of liquid in a capillary tube and show that the height of the liquid column supported is inversely proportional to the radius of the tube.

**UNITY HOUSE:**

State and prove Bernaulli’s principle for the flow of non-viscous fluids. Give its limitations.

**ZEAL HOUSE:**

What is a venturimeter? Describe its construction and working.

**UDAYA PUBLIC SCHOOL, AYODHYA**

**Winter vacation holiday homework**

**Class – XI Commerce**

**Subject – Business Studies**

**•HOPE HOUSE**

Write a detail case study about ‘Netflix’ in about 500 words..

**•LOVE HOUSE**

Write a detail case study about ‘OYO’ in about 500 words.

**•UNITY HOUSE**

Write a detail case study about ‘JLR Group’ in about 500 words.

**•ZEAL HOUSE**

Write a detail case study about ‘Flipkart’ in about 500 words.

**•COMMON QUESTION**

Write a biography of Mr. Ratan Tata in about 250 words.

**CLASS XI HOLIDAY HOMEWORK 2019-20**

**COMMON QUESTION :- Write at least 15 programs using python List and Dictionary**

HOPE :- Write and explain at least fifteen programming languages with their inventers images.

UNITY:- Give complete explanation about the use of python in web development.

LOVE :- Write explanation about Android operating system , write functioning and internal

 Structure of mobile processor with figures.

ZEAL: - Write Explanation about Proprietary and Open source software with examples, also

 explain advantages and disadvantages of Open source software and proprietary software.