



# L.R.S. ACADEMY

A Senior Secondary English Medium School, Nagina (Bijnor)  
(Affiliated to C.B.S.E. New Delhi)

## SUMMER HOLIDAY HOMEWORK

**CLASS  
XI (PCM)**



*Laying the foundation of excellence*

## **Principal's message**

**Dear Scholars,**

**Let us wholeheartedly wish you a cheerful summer vacation & may you enjoy the holidays to the fullest by making optimum use of your priceless time.**

**It is certain that each one of you have planned in advance about how to have an exciting vacation with your near & dear one's**

**But amidst all your plans ensures that you set aside some time for reading books of varied choices so that you enhance on both language & thinking skills.**

**Remember, this is the time when you may build a beautiful bond with your Parents, siblings, grandparents and other family members as well.**

**Spend some time with your grandparents specially and ask them to share their childhood & youthhood events with you. Help your mother in house hold chores & water your plants twice daily. You should take help of your elder siblings to do your homework & maintain healthy bond with youngers. Drink plenty of water and eat healthy food. Add seasonal fruits to eat in your daily routine. Take care of your health.**

**Let us all hope to rejoin and meet one another without any hurdles. Till then wishing you all a happy & eventful summer vacation.**

**With prayers**

**Noopur Chandra  
Principal  
L.R.S. ACADEMY, Nagina**

### **Instructions to do holiday homework -:**

- 1. Do holiday homework in a separate notebook.**
- 2. While doing Homework, maintain each subject's work separately.**
- 3. Take care of your handwriting.**
- 4. Cover the notebook properly & label it.**
- 5. Homework will be submitted on 01/07/2024.**
- 6. Holiday homework marks will be added in the next exam.**

### **Important Dates**

- 1. Summer vacation will start from 26/05/2024.**
- 2. After vaccination school will reopen from 01/07/2024.**  
**Timing at 07:45am to 01:40pm**



# L. R. S. ACADEMY, NAGINA

## HOLIDAY HOME WORK- 2024-25

### Class –XI (PCM)

#### ENGLISH

A. Project File

Poem (i) A Photograph

OR

We are not afraid to die

B. Write two advertisements

C. Poster designing- Two

D. Pick out twenty words from the text 'A Portrait of a lady' and use them in your own sentences.

E. Describe Tenses with forms, mentioning rules with examples and a chart.

#### MATHEMATICS

1. What is set. Define all kinds of set with suitable examples.

2. Show all the operations of sets by the Venn Diagram.

3. How is relation and function relate to the set. Show it by the suitable examples.

Note: Make a Chart of all the formulae of Sets and Trigonometry. Five Students can share one chart.

#### CHEMISTRY

1. Prepare a project on the given topic on explained in the class.

2. Prepare lab record (only writing, as given in the class group

3. Revise the syllabus done so far

4. Solve the following in your class note book.

a. Calculate the mass of one atom of silver ( $\text{Ag} = 108\text{u}$ )

b. The mass of 216.5 ml of a gas at STP is found to be 0.6862g. calculate the molecular mass of the gas.

c. Calculate the mass of sodium which contains the same number of atoms as are present in 10g of magnesium.

d. 10g of sucrose is dissolved in 100g of water. Find the mass percentage of sucrose in the solution.

e. 4g of NaOH is dissolved in 200  $\text{cm}^3$  of water. Find the molarity of the solution.

f. 1.0 g of pure sample of  $\text{CaCO}_3$  is treated with 50 $\text{cm}^3$  of  $\dots/2$  HCl solution. Calculate the volume of  $\text{CO}_2$  that will be evolved at STP.

g. How many protons and neutrons are present in the following nuclei

${}^4_2\text{He}$ ,  ${}^{12}_6\text{C}$ ,  ${}^{40}_{16}\text{Ar}$ ,  ${}^{22}_{10}\text{Ne}$ ,  ${}^{235}_{92}\text{U}$

h. The frequency if a radiation belonging to radio waves is  $3 \times 10^7$  Hz. Find the wave number and wave length of the radiation.

- i. One of the spectral lines of calcium has a wave length of 456mm. calculate the frequency of this line.
- j. Write the electronic configuration the following atoms Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn.

### PHYSICS

1. Make a chart of Dimension
2. Chart of fundamental and derived units
3. Make activity on motion on straight line.

Activities

Given in lab manual

1  
2  
3

section A

1  
2  
3

Section B

### PHYSICAL EDUCATION

Record File Shall include:

1. Fitness tests administration (SAI Khelo India test)
2. Procedure for Asanas, Benefits and Contraindication for any two Asanas for each life style disease.
3. Anyone one IOA recognized sport/ game of choice. Labeled diagram of Field and equipment. Also mention its Rules, Terminologies and skills