



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 (PCB)**



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 (PCB)

ENGLISH

A. Project File

Poem (i) A Photograph

OR

We are not afraid to die

B. Write two advertisement

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.

BIOLOGY

1. Write the classification of following- (A) Mango (B) Human

2. Differentiate between following (5 differences)

a. Angiosperms and Gymnosperms

b. Bryophytes and Pteridophytes

3. Draw well-labelled, neat and clean diagram of following-

a. Any one Brown Algae

b. Any one moss

c. Any one liverwort

4. Describe the life cycle of pteridophyte with a schematic diagram.

5. Give reason for following

a. *Chlorella* is consumed by space traveler.

b. Bryophytes are geographically distributed in restricted areas.

c. Gymnosperms are called as so?

6. Mention the ploidy of following-

a. Sporophyte stage of Angiosperms

b. Zygote of Bryophyte

c. Protonemal stage of liverworts

d. Female gametophyte of pteridophytes

7. Write the binomial for following

a. Banana (f) Lion

b. Guava (g) Dog

c. Orange (h) Cat

d. Apple (i) Buffalo

e. Mango (j) Crow

8. Prepare a Short note on Following-
 - a. Mycorrhiza
 - b. Prions
9. Write the name of four major classes of Pteridophyta and Give one example of each.
10. How are cones produced in gymnosperms
11. Write 5 economical importance of Gymnosperms.
12. What are following
 - a. Algin
 - b. Peat
 - c. Agar
 - d. Stipe
13. What characters of plants are included by Bentham and Hooker for his natural classification system of plants? How was this system of classification differ from artificial system of classification of plants.
14. Why is Binomial Nomenclature popularized world-wide.
15. Write 5 differences between the four major classes of fungi.

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 cm^3 of water. Find the molarity of the solution.
 - f. 1.0 g of pure sample of CaCO_3 is treated with 50 cm^3 of $\dots/2$ HCl solution. Calculate the volume of 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 3×10^7 Hz. Find the wave number and wave length of the radiation.
 - i. One of the spectral lines of calcium has a wave length of 456nm. 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] section A
3]

1]
2] Section B
3]

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