

The background of the cover is a vibrant beach scene at sunset. The sky transitions from a pale yellow at the horizon to a soft pink and purple at the top. Several palm trees of varying sizes are scattered across the landscape, some in the foreground and others in the distance. A large, dark silhouette of a palm tree is on the left side. In the lower right, a group of seven diverse, smiling cartoon children are gathered around an open book. The book has blank white pages. To the left of the children, a wooden signpost stands on the sandy beach. The sign has two horizontal planks; the top one says 'CLASS' and the bottom one says 'XII (PCB)'. Near the sign, there is a small pink beach umbrella, a coconut, a pair of blue sunglasses, and a red starfish. The overall mood is cheerful and summery.

# SUMMER HOLIDAY HOMEWORK

**CLASS  
XII (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 –XII (PCB)

#### English

##### Project File

A. Poem – My mother at sixty six by Kamla Das.

OR

Lost – Spring by Aneesjung

B. Write Four Notices in 50 Words.

C. Write an article on the topic

(i) How to control obesity among School Children

(ii) Status of Women in Society.

#### PHYSICS

1. Solve given 8 activities in file.

2. Solve all numerical of ch-1, 2 and 3 from S.L Arora.

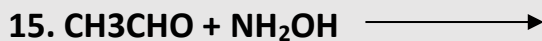
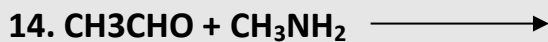
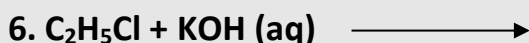
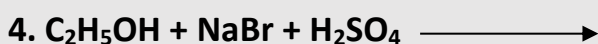
#### CHEMISTRY

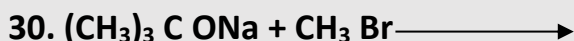
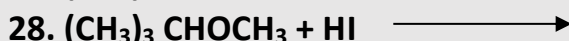
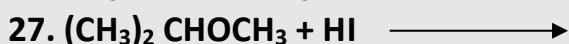
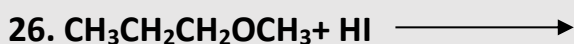
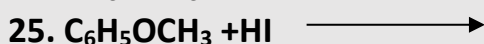
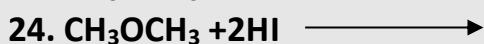
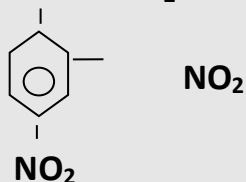
1. Prepare a project on the given topic as explained in the class.

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

3. Revise the syllabus done so far.

4. Complete the following chemical equations (for class test)





## BIOLOGY

### (A) Assignment-

1. Draw neat-clean and well labelled diagram of following-

(i) Fertilized Embryo sac

(ii) Pollen germination on stigma

(iii) Biogas Plant

(iv) Pie Chart for Proportionate number of species diversity of Major Taxa.

2. Explain 7-celled, 8- nucleate nature of mature embryo sac in Angiosperms.

3. Why is secondary treatment of sewage in STPs called as Biological treatment.

4. Why are cyanobacteria added to Paddy fields by Indian farmers? Also give examples of cyanobacteria.

5. What are characteristic features of a stable community.

6. How do Rivet-Popper hypothesis explain the importance of Biodiversity.

7. Explain the structure of Megasporangium of angiosperms along with its well labelled diagram.

8. Comment on the following-

“Discovery of Antibiotics by Alexander Fleming was a chance discovery”.

9. Explain Polygenic Inheritance.

10. Work out on a genetic cross to bring out the F<sub>1</sub> generation due to autogamy in a pea plant bearing green seed in heterozygous pod shape.

11. Explain one example of Point mutation.
12. Describe the failures of Mendelian laws in Mendelian pea plant.
13. Define and Design a back cross.
14. Test the genotype (AA/Aa) for axial flower position in Pea plant.
15. Work out on a genetic cross to find the possible blood groups in the children of a married Couple in which husband bears blood group AB and wife bears blood group Heterozygous A.
16. Explain four outbreeding devices developed by flowering plants.

**(B) Prepare Biology Practical File.**

<b>Physical EDUCATION</b>
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**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. Any one IOA recognized sport/game of choice. Labelled diagram of Field and Equipment. Also mention its Rules, Terminologies and Skills.