



LOYOLA CONVENT SCHOOL, RANCHI
WINTER VACATIONHOLIDAY HOMEWORK (2025-26)

CLASS-XI

ENGLISH

Q 1- Read any story book of famous writers like Jhumpa lahirii, Rabindranath Tagore, Virginia Woolf, Charles dickens etc and write a Book review.Paste pictures also.

Q 2 - Write a debate for and against on the topic 'Digital Privacy' in 120-150 words. You are Navin/Navita.

Q 3- How do the Author's observations highlight the difference between the legendary descriptions of exotic places and their present reality?

Q 4- Both "Silk Road" by Nick Middleton and "The voice of the rain" by Walt Whitman emphasize the idea that journey is more important than the destination.Discuss.

Q 5- Prepare a speech for your peers on the importance of self-respect and purpose, inspired by the stories "Mother's Day" and "Birth". Highlight how these narratives underscore the value of self-worth and finding meaning in one's actions.

(Instructions - Students must do their H.H.W. in their C.W./H.W. copy.)

HINDI

खण्ड 'ख'

अभिव्यक्ति और माध्यम (पाठ्यपुस्तक)

निम्नलिखित दिए गए तीन अप्रत्याशित विषयों में से किसी एक विषय पर लगभग 120 शब्दों में रचनात्मक लेख लिखिए-

(i) योग के माध्यम से हम शरीर तथा मन दोनों को स्वस्थ कर सकते हैं। जीवन में योग की अनिवार्यता तथा उससे मिलने वाले लाभों का वर्णन करते हुए अपने विचार लिखिए।

(ii) 'जल ही जीवन है।' इस कथन के आधार पर एक रचनात्मक लेख लिखिए।

(iii) भारत में विभिन्न धर्मों, जातियों एवं सम्प्रदायों को मानने वाले लोग रहते हैं। इसलिए भारतीय समाज में अनेक समस्याओं का होना भी लाज़मी है। अतः 'भारतीय समाज की समस्याएँ' विषय पर एक रचनात्मक लेख लिखिए।

MATHS

Lab Activity - 6:

To construct a Pascal's triangle and to write Binomial expansion for a given positive integral exponent.

Lab Activity - 7:

To verify that the equation of a line passing through the point of intersection of two given lines.

Lab Activity - 8:

To represent theoretic operations of sets using Venn diagrams.

Lab Activity - 9:

Verification of the geometrical significance of derivative.

Lab Activity - 10:

To write the sample space when a coin is tossed once, two times, three times, four times.

PHYSICS

1. Write all 6 activities in the record.

2. Write following 4experiments in the record:

1) Using simple pendulum, plot L-T² graph and use it to find the effective length of a seconds pendulum.

2) To study relation between frequency and length of a given wire under constant tension Using sonometer.

3) To study the relation between the length of the wire and tension for constant frequency using sonometer.

4) To determine radius of curvature of a given spherical surface by a spherometer.

BIOLOGY

- A. Choose any topic and make project based on cbse pattern in rectangular file
- B. Complete the following practical in biology practical copy
1. Comparative study of the rates of transpiration in the upper and lower surface of leaves.
 2. Study of distribution of stomata in the upper and lower surface of leaves.
 3. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.
 4. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal material.
 5. Human skeleton and different types of joints with the help of virtual images/models only

CHEMISTRY

- A. Complete writing all 6 experiments in your practical copy giving the serial no. of your copy:
1. Aim : To prepare M/10 sodium carbonate solution.
 2. Aim : Prepare 250 ml of 5 N HCl from the given 12 N HCl
 3. Aim : Determine the strength of the given sodium hydroxide solution provided with M/20 oxalic acid solution.
 4. Aim : To analyse the given salt for acidic and basic radicals.
 5. Aim : To analyse the given salt for acidic and basic radicals.
 6. Aim : Detection of N,S,Cl,Br and I by Lassaigne's Test.
- Note : Serial no -4 for Barium Nitrate [$\text{Ba}(\text{NO}_3)_2$] and serial no 5 - for Zinc Carbonate [ZnCO_3] and already you have written 3 Expts. so now it will be 4,5,6,7,8 & 9.

AND

- B. Complete any one project from the given all 3- topics in stick file as you have submitted for Half Yearly Exam.

1. Study of Adulterants in Food - stuffs.
 - a. To detect the presence of Adulterants in fat,oil and butter
 - b. To detect the presence of Adulterants in sample of chilli powder, turmeric powder and pepper.
 - c. To detect the presence of Adulterants in sugar
2. Study the Foaming Capacity of Soaps
 - a. Compare the foaming capacities of different samples of soaps
 - b. Study the effect of addition of sodium carbonate (washing soda) on the foaming capacity of a soap.
3. The study of Contents Responsible for Flavour of Tea
 - a. Compare the water soluble polyphenol (catechin) in the various samples of tea leaves
 - b. Compare the tannic acid content of various samples of tea
 - c. Compare the caffeine content of the different samples of tea.

Note : You can take help of Comprehensive Practical Chemistry for class -XI

To prepare project you will do all contents of either serial number.

GEOGRAPHY

- (1) Name the different types of vegetation of India and explain Monsoon and Montane forest in detail.
- (2) Explain the different layers of atmosphere with suitable diagram.
- (3) Explain the 'Heat Budget 'on the surface of the Earth.
- (4) On the political outline map of India label the density of population.
- (5) Mention the different steps to control the environment degradation and explain it briefly.

ECONOMICS

Complete the Project file of Economics (XIC&D) for final Examination.(Choose any one of the topic from the list given by CBSE)

POLITICAL SCIENCE

Prepare project on : Data Privacy & Cyber Security in India including the pointers mentioned below
Digital Personal Data Protection Act, 2023

Importance of data privacy

Cybercrime cases

Role of CERT-In

HISTORY

DO THE GIVEN HOMEWORK IN THE HOLIDAY HOMEWORK REGISTER.

Write in Detail about the following topics. Also paste relevant pictures.

1. Renaissance
2. What is Humanism ?
3. What roles were played by Universities of Padua and Bologna in changing the European society in 14th and 15th centuries ?
4. Write in brief about Francesco Petrarch.

ACCOUNTANCY

Complete the Project Work

BUSINESS STUDY

Complete the project files of Business Studies (XIC) for Final Examination (Choose any one of the topic from the list given by CBSE)

PHYSICAL EDUCATION

Complete all 3 practicals of the practical notebook

COMPUTER

1. Output-Based Questions on Tuples

Given:

tuple1 = (23,1,45,67,45,9,55,45)

tuple2 = (100,200)

Find the output of:

- | | | |
|----------------------------|-----------------------------|-----------------------------|
| i. print(tuple1.index(45)) | ii. print(tuple1.count(45)) | iii. print(tuple1 + tuple2) |
| iv. print(len(tuple2)) | v. print(max(tuple1)) | vi. print(min(tuple1)) |
| vii. print(sum(tuple2)) | viii. print(sorted(tuple1)) | ix. print(tuple1) |

2. Theory Questions on Tuples

3. "Lists and Tuples are ordered." Explain.

4. Show with an example how a function can return more than one value.

5. What advantages do tuples have over lists?

6. When should we use a tuple in Python? Give examples.

7. Prove with an example that a variable is rebuilt when using immutable data types.

8. A TypeError occurs in this code. Explain the reason. How to fix it?

```
>>> tuple1 = (5)
```

```
>>> len(tuple1)
```

3. Tuple Programming Questions

- a. Write a program to read email IDs of n number of students and store them in a tuple. Create two new tuples, one to store only the usernames from the email IDs and second to store domain names from the email IDs. Print all three tuples at the end of the program. [Hint: You may use the function split()]
- b. Write a program to input names of n students and store them in a tuple. Also, input a name from the user and find if this student is present in the tuple or not.

We can accomplish these by:

- (a) writing a user defined function
- (b) using the built-in function
