



BRILLIANTS' CONVENT

Class XI

2025-26



**SUMMER HOLIDAY
HOMEWORK**

GENERAL INSTRUCTIONS (FOR ALL SUBJECTS):

- Section A will do the task based on Andaman and Nicobar Islands.
- Section B will do the task on Sikkim.
- Section C will do the task on Lakshadweep Islands.
- A question based on NEP 2020 (remaining questions) is compulsory for all students.

ENGLISH

1. The Litstagram Challenge!

Design a creative Instagram handle and a post/story from the perspective of any key character from either *Hornbill* or *Snapshots*, after thoroughly analyzing their traits, thoughts, and actions. Think about what they'd post, write a fun bio, and add clever hashtags!" Share the link of your created Instagram page or post with your teacher and take a coloured printout of the same. File your printout neatly in a clear bag folder.

Sample:

Character: Aram (*The Summer of the Beautiful White Horse*)

Instagram Handle: @dreaming_rider

Profile Picture: (A boy with wide eyes, standing beside a white horse)

Bio:

11 y/o | Lover of horses & adventures | Garoghlanian spirit
"Innocence meets wild dreams."

#CousinsForever #HorseLove #ChildhoodMemories

Sample Post:

- Photo: Aram gently patting the white horse with a big grin, Murad in the background holding the bridle.

Caption: "First ride ever! Felt like flying across the fields... even if it was a borrowed dream. #BestDay #FamilySecrets #WildAtHeart #SummerVibes"

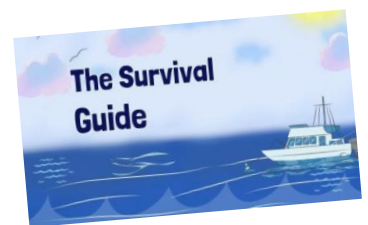
Hashtags: #TheSummerOfTheBeautifulWhiteHorse #Snapshots
#ClassicLit #HorseLovers #GaroghlanianClan #LitstagramChallenge
#InnocentTimes #StorybookMoments

2. Survival Squad: Captain Your Own Voyage!"

Imagine you and your team are on an adventurous journey to explore the Andaman and Nicobar Islands/ Sikkim/ Lakshadweep Islands. Create a "Survival Guide" booklet that includes:

(a) Your Crew:

List 5–6 people (real or imaginary) you'd take along to explore the wilderness. Describe each in 1–2 lines, explaining what role or skill they'd contribute (e.g., marine biologist, cook, navigator, medic).



(b) Safety Checklist:

- Make a list of 10 essential items you'd pack, keeping in mind the coastal/ tropical or mountainous environment.

(c) Motivational Poster:

- Design an A4-size poster with a slogan encouraging teamwork, bravery, and environmental conservation, inspired by your imagined journey and the natural beauty of the respective environment.

(d) Reflection Journal:

- Write a diary entry (150 words) imagining you face a dangerous/risky situation. Describe how your team stays calm, works together, and shows respect for nature.

(e) Bonus Challenge:

- Draw a map of Andaman and Nicobar islands/ Sikkim/ Lakshadweep Islands and sketch your planned route, highlighting places of interest.

Note: Use **A-4 size sheets** to make your guide. Use your creativity and presentation skills to create your booklet. Get the booklet spiral bound and submit it in a clear bag folder.

3. PROJECT WORK

TITLE: NEP 2020 – Reimagining Education in India

Project Structure:

- (a) Cover Page
- (b) Index
- (c) Certificate
- (d) Acknowledgment
- (e) Objective
- (f) Introduction to NEP 2020
- (g) Key highlights of NEP 2020
- (h) Language and NEP 2020
- (i) Impact on school students and teachers
- (j) Student Voice - Express yourself (Choose any one - Design a poster titled “NEP 2020 – A Student's Vision of the Future” OR Write a dialogue between two students discussing NEP 2020 OR Draft a letter to the Education Minister expressing your support or concern about NEP)
- (k) Write a short article (200 words): “How NEP 2020 Connects to the Real World” – Discuss with examples from your own classroom or community.
- (l) Conclusion
- (m) Bibliography

PHYSICS

1. Prepare a project / report (8 - 10 pages) on the topic “Physics in Andaman & Nicobar Island”.

Submission Format:

Powerpoint Presentation or Handwritten journal-

- Wave motion and Sea waves
- Study the formation & propagation of Sea waves
- Explain the physics of Tidal waves and tsunamis
- Describe how energy is transferred through waves

2. Answer the questions that follow in your Physics Notebook:
 - (a) Name two physical quantities having the dimensions [ML^2T^{-2}].
 - (b) Can a quantity have different dimensions in different system of units ?
 - (c) Write the dimensional formula for coefficient of viscosity and Strain.
 - (d) Write the number of significant figures in each of the following measurement:
 - (i) 1.67×10^{-27} kg
 - (ii) 0.0270 cm
 - (e) Can an object have an eastward velocity while experiencing a westward acceleration?
 - (f) Is it possible for a body to be accelerated without speeding up or slowing down? If so, give an example.
 - (g) Even when rain is falling vertically downwards, the front screen of a moving car gets wet while the back screen remains dry. Why?
3. Prepare Investigatory project on the topic discussed with the teacher.

CHEMISTRY

Creative Integration

1. Prepare a poster or infographic on any of the following based on Andaman & Nicobar Island :
 - (a) The chemistry behind marine life survival (pH, salinity, oxygen content)
 - (b) Impact of pollution on island ecosystems and how chemistry helps in waste management
 - (c) Natural resources of the islands and their chemical uses (e.g., coconut oil, shells, fish oil)

Submission Format:

- (a) A4 or digital format
- (b) Use clear headings, images/diagrams where possible
2. Prepare Investigatory Project on the topic discussed with the teacher.

BIOLOGY

1. Revise the syllabus covered in the class
2. Prepare a project on any research based topic. Students have to make an Investigatory Project on the topic discussed with the teacher.

How to write the report of the investigatory project?

A sample format on how to properly write the project report is given as follows:

Front Page / Cover Page

In this page you will have to write the Title of the project or name of the project that you are working on. It should also contain other information such as the name of the student.

Certificate

This page will contain a certificate that will certify your project. It will have information like your project title, your name, roll number, guide teacher's name, along with space for signature of the guide teacher and external practical examiner.

Acknowledgement

The page acknowledges individuals that have played a direct or indirect role in completing your project work.

Table of Contents

This page contains all the major headings and sub headings of your project. It should contain the respective page number also.

Objective / Aim of the project

This page expresses the aim of the project as clearly as possible.

Introduction / Theory

This should give a general idea of the project that you have worked on and should introduce the reader to your project'

Materials required

In this page all the materials or apparatus used are mentioned.

Procedure

In a simple manner, write the steps that you have followed during your experiment/ investigation. You may include a diagram or photo of the experimental setup.

Observation / Result

Once the experiment is performed you should record your observations.

You can represent your observations in the form of a table or chart or text or pictures or a combination of these.

Analysis and interpretation

Precaution:

Mention all the precautions that should be followed during the experiment.

Conclusion:

Based on the results obtained and related work done, write the conclusion briefly. You may also write whether the objectives of your project have been met or not.

Bibliography/ References

This should be the last page of your project write up.

Here you should mention all the resources that you have used in terms of articles/books or URLs while working on the project.

3. Prepare a Blog on the Biodiversity available in Andaman & Nicobar Island that should include its habitat, different diversity of plants and animals of that area.

MATHS

1. Practice and revise all chapters taught in class till date. Learn all the formulas that are there in certain chapters along with writing down on a paper.
2. NEP-2020 Based Question:

Find **Union & intersection using the given information**

Let

$L = \{\text{critical thinking, creativity, communication, collaboration}\}$

be “21st-century skills” in NEP 2020, and let $T = \{\text{skills assessed in your last exam}\}$.

(a) Find $L \cup T$ and $L \cap T$

(b) Interpret the results in two insightful sentences about curriculum alignment with NEP.

3. Use information about the Union Territory of **Andaman and Nicobar/ Sikkim/ Lakshadweep** - its islands, languages, tourist activities, flora & fauna, and demographics-to answer the following. Show all working and state any assumptions you make.

Write Finite, infinite, empty & singleton sets for the following:

(a) Set of airports in **Andaman and Nicobar/ Sikkim/ Lakshadweep**.

(b) Set of natural numbers n such that n tourists visited **Andaman and Nicobar/ Sikkim/ Lakshadweep** in year 2024.

(c) Set of coral species endemic to **Andaman and Nicobar/ Sikkim/ Lakshadweep**.

(d) Set containing the distance (in km) from Cellular Jail in Port Blair to **Andaman and Nicobar/ Sikkim/ Lakshadweep**.

ACCOUNTANCY

1. Revise the syllabus covered in the class.
2. Prepare a project consisting of a comprehensive problem which will include
 - (a) Journal
 - (b) Ledger
 - (c) Trial Balance
 - (d) Trading Account
 - (e) Profit and Loss Account
 - (f) Balance Sheet
3. Take a balance sheet of a successful business of Sikkim and then classify its different types of assets and liabilities like current liabilities, intangible assets, non current assets etc.

BUSINESS STUDIES

1. Revise the syllabus covered in the class
2. Prepare a project on the topic that is allotted according to your roll number.
Banking - Roll no. 1 to 13
Insurance - Roll no. 14 to 26
3. Identify any 4 different businesses of Sikkim and classify them on the basis of different forms of business organisations like partnership firm, private company, public company, cooperative society, sole proprietorship etc.

ECONOMICS

1. Revise the syllabus covered in the class
2. Prepare a project on the topic that is allotted according to your roll number.
SAMPLE AND CENSUS METHOD - Roll no. 1 to 13
PRESENTATION OF DATA - Roll no. 14 to 25
3. Prepare a collage on classification of Economic Activities i.e. Agriculture, Industry, Trade, Tourism, Fishing and Infrastructure Facilities of Andaman & Nicobar Islands / Sikkim/ Lakshadweep on A-3 Size sheets with colourful pictures

POLITICAL SCIENCE

TASK 1: BONUS QUESTION (Lakshadweep Theme – Political Connection):

- (a) “Why did the Prime Minister’s visit to Lakshadweep spark a global political conversation, and how does such a visit reflect the significance of territory and national security in India’s federal setup?”
(Answer this on a separate A4 sheet – attach with project file.)
- (b) “Why did the Prime Minister’s visit to Lakshadweep spark a global political conversation, and how does such a visit reflect the significance of territory and national security in India’s federal setup?”
(Answer this on a separate A4 sheet – attach with project file.)

TASK 2: Theme: “India Speaks”**Aligned with:** CBSE | NCERT | NEP 2020**Skills Developed:** Critical Thinking, Creativity, Collaboration, Communication

Component	Details
Task Title	 Political Collage – “India’s Response to Contemporary National Challenges”
Objective	To explore how the Indian Constitution and government policies respond to key national challenges
Topics (Choose One)	1.  Border Security & India-Pakistan Tensions, Terrorism 2.  Climate Change & Environmental Laws 3.  Digital Governance & Data Privacy
What to Do	Create a visual collage using news clippings, images, headlines, and brief write-ups.
Guidelines	- Include the role of Indian Constitution & Government - Add facts, quotes, or schemes - Ensure neatness and creativity
Presentation (Optional)	Prepare a 2-minute explanation of your collage for class display or peer presentation
Skills You’ll Practice	✓ Critical Thinking ✓ Creativity ✓ Collaboration ✓ Communication
NEP 2020 Focus	- Art-Integration - Constitutional Literacy - Real-world Application of Knowledge

TASK 3: Project Work

Prepare a well-researched, pictorial project according to CBSE guidelines.

- Roll No:1 to 5 (Topic 1)
- Roll No 6 to 10 (Topic 2)
- Roll No 11 to 15 (Topic 3)
- Roll No 16 to 18 (Topic 4)

TOPICS:

1. The Constitution in Crisis: How India’s Democracy Responds in Times of War and Conflict (Focus: Role of Constitution during emergencies, war, and national security issues)
2. Parliament in Action: Passing Laws During National Emergencies and Security Challenges (Focus: Legislature’s role in crisis situations, important recent bills related to defense and security)
3. Judiciary’s Role in Protecting Rights During Conflict: Recent Landmark Judgments (Focus: How courts protect fundamental rights in times of internal and external conflict)
4. Citizenship and National Identity in the Era of Global Conflicts and Migration (Focus: Citizenship laws, refugee issues, and national identity in today’s political climate)

Project Guidelines:

1. Use A4 size sheets, handwritten only
2. Add pictures, infographics, and tables
3. Include:
 - Cover Page (with creative title & student details)
 - Table of Contents
 - Acknowledgement
 - Introduction

- Headings/Subheadings with detailed information
- Case Studies or News Examples
- Conclusion
- Bibliography

COMPUTER SC. & INFORMATICS PRAC.

Part A : Assignment Questions

(To be attempted in the class register)

1. Why Python is called a cross-platform language and an interpreted language?
2. Identify the types of following literals:

(a) 23.789	(b) False	(c) "True"
(d) 34 + i4	(e) None	(f) 4+3j
3. Identify valid or invalid identifiers:
True, Student-Name, IF, PRINT, 1stAge, Number1
4. Distinguish between (write 2 points of difference in tabular format):

(a) Interactive mode and Script mode in Python	(b) Keyword and Identifier in Python
(c) Dynamic and Static typing	(d) / and // operator
5. Find the errors in the following codes:

(a) temp=90 print temp	(b) a=12 b = a + b print (a and b)
(c) a, b = 0	(d) 5= a

Part B : List of Practicals

(To be attempted in Python Idle on your laptop/PC)

Instructions:

- Take print-outs of all the programs as well as screenshots of the program outputs).
- Make a practical file according to the format discussed in the class.

LIST OF PRACTICALS

1. Write a Python program to accept two numbers and swap their values

(a) using a third variable	(b) without using a third variable	(c) using multiple assignment
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2. Write a Python program to convert temperature in Celsius to Fahrenheit. The temperature must be input in decimal number.
3. Write a Python program to accept principal, rate of interest and time period of an investment and compute and print the simple interest.
4. Write a Python program that uses arithmetic operators (+, -, *, /, %, //) on two numbers input from the user, and displays the respective results.
5. Write a Python program to obtain temperatures of 7 days of a week and then display the average temperature of the week. The input must be taken from the user in decimals.
6. Write a Python program that calculates and displays the area and perimeter of a circle, a square, a rectangle and a triangle. Take appropriate inputs from the user.
7. Write a Python program to check if a number input from the user is even or odd.

8. Write a Python program to find if a given year is leap year or not.
9. Write a Python program that inputs a student's marks in five subjects (out of 100), then prints the percentage of marks, and calculates grades as per the following rules:

Marks	Grade
85% and above	A
75-84%	B
65-74%	C
50-64%	D
40-49%	E
39% and below	Fail

10. Write a Python program to find the greater of 2 numbers input from the user.
11. Write a Python program to find the smallest of 3 numbers input from the user.

HINDI

- प्रश्न- 1 अंडमान और निकोबार द्वीप समूह का परिचय दीजिए, जिसमें उसका भूगोल, प्रमुख द्वीप, प्राकृतिक संसाधन और पर्यटन स्थलों का वर्णन करें।
(छात्रों को शोध कर चित्रों, नक्शों और तथ्यों के साथ इसे सजाना होगा।)
- प्रश्न- 2 "अगर मैं सिक्किम घूमने जाऊँ..." - इस विषय पर एक कल्पनात्मक यात्रा-वृत्तांत लिखिए।
- यात्रा के दौरान आपने क्या देखा, क्या सीखा और क्या अनुभव किया, इसे रचनात्मक रूप से प्रस्तुत करें।
- प्रश्न- 3 हम सभी कैसे अपने दैनिक कार्य से किसी न किसी रूप में अपने देशप्रेम को प्रकट कर सकते हैं। इसे एक अनुच्छेद के रूप में लिखिए।

PHYSICAL EDUCATION

1. Make the project files as per the topics discussed in the class.
2. Revise the entire syllabus covered so far in the class.