

**GREEN MOUNT GLOBAL SCHOOL, Bhimtal**  
**HOME WORK FOR SUMMER BREAK (2026-27)**

**Class- X**

**ENGLISH**

1 Thinking Skill

Write an alternate ending to the chapter A Letter to God in which Lencho reacts to the crisis with greater wisdom and rationality. Show how he gradually changes from being suspicious and doubtful to becoming understanding, grateful, and appreciative of the unexpected help he receives during his difficult time.

Highlight the importance of faith, humanity, and gratitude through his transformed attitude.

Illustrate the story with relevant pictures.

2 Empathy

Stray animals and birds suffer greatly during the summer season due to extreme heat, scarcity of water and food, and lack of proper shelter.

Write a speech in about 200 words to be delivered in the morning assembly on the topic “Humanity begins with Kindness to Animals .” Highlight the challenges faced by stray animals and birds during summer and suggest practical ways in which we can help make their lives safer, healthier, and more comfortable.

3 Creative Writing

Make an attractive poster on an A4 sheet on any one of the following themes:

Save Environment

Mental Health Matters

Say No to Bullying

Digital Detox

Kindness is Powerful

Education for All

Safety on Road

Write catching slogans to spread awareness.

4 Problem Solving :

Choose a problem from your surroundings like waste disposal, electricity crisis, water shortage, stray animals or any other and record your findings under the following headings:

Create:

A brief description of the problem

Causes and effects

A practical solution plan

A catchy slogan

Mention what did you do to mitigate this problem.

Click pictures and paste in your file.

5 Writing Skill

Creative Writing – Determiners

Types of Determiners

1. Articles-a,an,the

2. Demonstratives-that,this,these,those

3. Possessives-my,her,his,their,our

4. Quantifiers-much,many,few,some

5. Numerals- one,two,three,first,second,last

6. Distributives-each,either,every

7. Interrogatives-which,when,where

Write a descriptive paragraph in about 120–150 words on the topic “A Day at a Fun Fair” using a variety of determiners such as articles, possessives, quantifiers, demonstratives, and distributives. Underline the determiners used in your paragraph.

**MATHEMATICS**

1 Assertion (A): In a certain code, if 'SUN' is coded as 54, then 'MOON' must be coded as 51.

Reason (R): Coding is often done by adding the numerical positions of letters in the English alphabet (A=1, B=2,..... Z=26).

2 Assertion (A): If all mammals have lungs and a whale is a mammal, then a whale must have lungs.

Reason (R): Deductive reasoning moves from a general premise to a specific, certain conclusion.

3 Akash, Brenda, Chandni, Deepak, Elena, and Farhan—are representing different countries (India, Japan, Germany, Canada, Brazil, and France) at a science fair. They are sitting around a circular table, all facing the centre. The student representing Brazil is sitting second to the left of Brenda. Elena is representing Germany and is sitting exactly opposite Akash. The student from India is sitting to the immediate right of the student from Germany. Farhan is representing Japan and is sitting between Brenda and the student from Brazil. Deepak is representing France and is sitting third to the right of Elena. Brenda is not the representative of India.

- a) Which country is Akash representing?
- b) Who is sitting exactly opposite Farhan?
- c) How many members are sitting between India and Japan?
- 4 If in a certain code language, 'MADRAS' is written as 'NBESBT', how will 'BOMBAY' be written in that code?
- 5 Five friends (A, B, C, D, and E) are in a line. D is to the immediate left of E, and B is to the immediate right of C. If C is not at any end, who is in the middle?
- 6 A bicycle wheel makes 5,000 revolutions in moving 11 km. What is the radius of the wheel?
- 7 A city wants to reduce its carbon footprint. It implements two new rules:  
Rule A: Every new building must have solar panels.  
Rule B: Public transport is free on weekends.  
One year later, the city's overall carbon emissions have dropped by 15%, but the number of private cars on the road during the week has actually increased by 5%.  
why the carbon emissions dropped despite more cars being on the road during the week?
- 8 A person walks 5 km North, then turns Right and walks 3 km. Finally, they turn Right again and walk 5 km. In which direction are they now from the starting point?
- 9 A clock is set right at 5 a.m. The clock loses 16 minutes in 24 hours. What will be the true time when the clock indicates 10 p.m. on the fourth day?
- 10 A library uses a specific coding system for books: The first letter is the genre: F (Fiction), N (Non-fiction), S (Science). The numbers represent the floor and shelf: e.g., 204 = 2nd floor, 04 shelf. A book is "Overdue" if the last digit is odd and the genre is F.  
If a book is on the 4th floor, shelf 12, and is Non-fiction, what is its code?

## SCIENCE

- 1 Explain the reason-
    - a) Why is respiration considered an exothermic reaction?
    - b) Why are decomposition reactions called the opposite of combination reactions?
    - c) Why should magnesium ribbon be cleaned before burning?
    - d) Why are oxidation and reduction reactions always carried out together?
    - e) Why do silver articles turn black after some time?
  - 2 Prepare a colorful mind map on “**Types of Chemical Reactions**”  
Include: Combination reaction, Decomposition reaction, Displacement reaction, Double displacement reaction, Redox reaction.  
Also include: **definitions, examples, small drawings/symbols**
  - 3 **Activity - “Chemistry in My Kitchen”**  
Observe your kitchen carefully for one week and identify any 5 chemical reactions taking place in daily life. Examples: **Cooking food, Milk turning into curd, Rusting of iron utensils, burning of LPG, Browning of cut apple.**  
Paste or draw pictures of the reactions and complete the table:
 

| Daily Life Activity | Chemical Change Observed | Type of Reaction |
|---------------------|--------------------------|------------------|
|                     |                          |                  |
|                     |                          |                  |
- Then answer:
- a) Which reaction did you find most interesting and why?
  - b) Which reactions are useful and which are harmful?
  - c) How can we prevent unwanted chemical reactions?
  - 4 Case study type question  
Rohan was feeling weak and tired for many days. During a health check-up, the doctor found that his hemoglobin level was low. The doctor advised him to include spinach, jaggery, dates, and green vegetables in his diet. Hemoglobin is present in red blood cells and helps in transporting oxygen from lungs to all parts of the body. Due to low hemoglobin, oxygen supply to body cells decreases, causing weakness and tiredness.
    - a) Which life process is highlighted in this case study ?
    - b) Which component of blood carries oxygen?
    - c) Why was Rohan feeling weak and tired?
    - d) Name the organ that pumps blood throughout the body.
    - e) Name two blood vessels connected to the heart
  - 5 How is lymph an important fluid involved in transportation? If lymphatic vessels get blocked, how would it affect the human body? Elaborate.
  - 6 Why are convex mirrors used as rear-view mirrors in vehicles instead of plane mirrors?
  - 7 Find at least three real-life advantages with examples from buses, bikes, or cars.
  - 8 A convex lens forms a real image twice the size of the object on a screen placed 30 cm away from the lens.  
Find:  
Object distance and Focal length of lens

## SOCIAL SCIENCE

1 Write some useful information about industries.

| Type of industry        | Raw material | Production | Employment |
|-------------------------|--------------|------------|------------|
| Textile industry        |              |            |            |
| Iron and steel industry |              |            |            |
| Sugar industry          |              |            |            |

2 Make a project about 4 pages on wildlife conservation covering following aspects

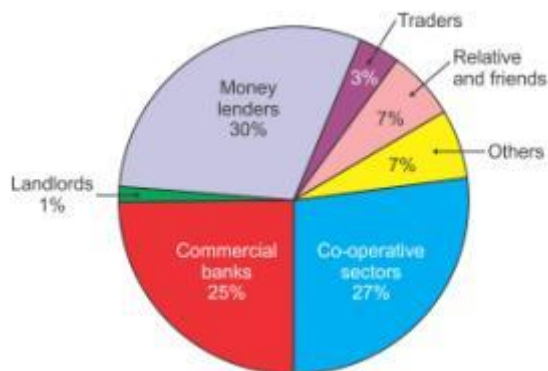
- Habitat loss
- Human wildlife conflicts
- Poaching and wildlife trade
- community based conservation
- Protected areas.

3 Define the following terms:

- Barter system
- Dominion status
- Smelting
- Partisanship

4 Draw the image of Bharat Mata by using appropriate colours under following information

- Name the artist who drawn the image.
- When was it drawn?
- What is the significance of the image?



On the basis of above pie chart find out :

- What are the two major sources of formal and Informal sector credit in India?
- Why should the credit activities of the informal sector be discouraged?
- Why is the formal sector credit mostly not available in rural areas?

- 5
- Both A and R true, and R is the correct explanation of A.
  - Both A and R true, and R is not the correct explanation of A.
  - A is true R is false
  - R is true A is false

Assertion (A): Caste system can lead to social exclusion and inequality

Reason (R) : Caste system often assign occupation and social status based on birth.

Assertion (A): The Rowlatt Act sparked widespread protest in India.

Reason (R) The Act allowed British authorities to arrest and individuals without a trial for two years.

6 Case based question:

Case : Service Sector Growth

India's service sector has experienced rapid growth in recent years, driven by the IT and ITES industries. This growth has created new job opportunities and contributed significantly to the country's GDP. However, it has also raised concerns about the sector's sustainability and the need for skilled workforce.

- What are the primary drivers of growth in India's service sector?
- How has the growth of the service sector impacted the Indian economy?
- What are some potential challenges facing the service sector in India?

7 Differential between (i) coming together Federation and holding together federation (ii) formal and Informal sources of credit.

8 Prepare a chart on process of converting Iron ore to steel on following process:

- Mining and extraction
- Blast furnace
- Steel production
- Casting and shaping

- 9 Investigate water Resources if your region and find out:
- What are the primary source of water in your region?
  - How is water used in your region?
  - What measures can be taken to conserve and managing water resources sustainably?
- 10 Explain the term disaster management.
- Make a disaster preparedness plan for your family and community
  - Identify potential hazards and risks.
  - Display emergency contact information and communication plans.

## HINDI

- 1 रचनात्मक लेखन
- अनुच्छेद लेखन— 'पर्यावरण संरक्षण' 120 शब्दों में अनुच्छेद लिखें।
  - पत्र लेखन: अपने छोटे भाई/बहन को छात्रावास में पढ़ाई के लिए एक पत्र लिखें, जिसमें दिनचर्या का पालन करने का सुझाव हो।
  - विज्ञापन— 'पुरानी किताबों के पुनर्चक्रण' पर एक आकर्षक विज्ञापन (40–50 शब्द) बनाएं।
  - आपको समाज सुधार करने का अवसर मिले तो आप क्या-क्या सुधार करना चाहेंगे और कैसे करना चाहेंगे लिखिए।
- 2 पाठ्य पुस्तक आधारित कार्य
- व्याकरण: समास (तत्पुरुष, द्विगु, द्वंद्व) के कम से कम 10–10 उदाहरण पाठ्य पुस्तक से छांटकर लिखें।
  - स्पर्श (पद्य खंड)— कबीर की साखियों से मिलने वाली सीख को अपने शब्दों में लिखें।
- 3 परियोजना काय
- अपने राज्य (उत्तराखंड) के प्रसिद्ध स्वतंत्रता सेनानियों (कम से कम 5 ) का सुंदर चित्र बनाकर उनके जीवन पर 10 पंक्तियाँ लिखें।

## INFORMATION TECHNOLOGY

- Differentiate between a manual table of contents and an automatically generated table of contents in a digital document. Which one is more useful for large documents and why?
- A student is preparing a project report with headings, images, and tables. Explain how styles and formatting help in improving the presentation and consistency of the document.
- How does self-management help students in achieving academic and personal goals? Explain with suitable examples from daily life.

### Activity-Based Questions

#### Activity 1 – Advanced Digital Documentation

##### Create a Digital Poster

Create a digital poster in LibreOffice Writer on the topic:

“Cyber Safety Awareness”

Your poster should include:

Heading with proper styles

Images

Text formatting

Page border

Bullets or numbering

#### Activity 2 – Communication Skills & Self-Management Skills

Prepare a short report (1 page) on:

“How I Manage My Time During Summer Vacation”

Include:

Daily routine

Communication with family and friends

Study schedule

Hobbies and relaxation activities

Ways to avoid distractions