



AIR FORCE SCHOOL KANPUR CANTT.



ACADEMIC SESSION-
2026-27

ENJOY YOUR SUMMER VACATION



▶ ITS SUMMER TIME: TIME FOR STRENGTHENING FAMILY BOND, TYING THREADS OF FAMILY TREE, SHARING JOYS AND SORROWS, HAVE A GOOD TIME TOGETHER.



▶ TAKE GOOD CARE OF YOUR HEALTH AND HYGIENE.



▶ USE HOLIDAY HOMEWORK AS AN OPPORTUNITY TO SPEND QUALITY TIME TOGETHER.



▶ LET THE CHILD TAKE THE LEAD AND USE THEIR IMAGINATION, CREATIVITY AND KNOWLEDGE TO DO THE ASSIGNED TASK. THE ROLE OF THE PARENT IS TO BE THE FACILITATOR AND GUIDE TO STEER THE CHILD TOWARDS THE RIGHT PATH.



▶ DO YOGA PRACTICE DAILY.



WE WISH YOU LOADS OF
HAPPINESS, JOY, FUN
AND GOOD HEALTH WHILE
YOU ARE ON VACATIONS.

Summer Vacation Work

Class X

Mathematics

Do all the questions of chapter 1, chapter 2 and chapter 3 from NCERT Exemplar.

English

1. Project Assam (EBSB) : Pairing state to Rajasthan

Draw/Cut and Paste pictures and Write a write-up for:

Traditional Clothes

Traditional Dance Forms

English Literary Personalities from Assam and Rajasthan

2. Portfolio: Take out the print-out given in Portfolio link and complete the asked information.

3. Solve last three years Sample papers (Any Set). Write in Grammar notebook and attach the print-out of the Question Papers.

4. Write two examples of Letter to the Editor. (Write in Grammar notebook)

5. Write two examples of Analytical Paragraph. (Write in Grammar notebook)


Note: Docx file is given below.

Social Science

1. Read all the chapters

2. Prepare all the chapters for periodic assessment 1

3. Solved all the worksheets in your fair notebook according to subject

6	<p>"Due to their peculiar social and historical circumstances, the Constitution of India gives special status to some Indian states". These provisions are given in _____.</p> <p>A. Article 371 B. Article 271 C. Article 172 D. Article 152</p>
7	<p>Which administrative authority legislates on 'residuary subjects'?</p> <p>A. Union Government B. State Government C. Local Government D. All of the above</p>
8	<p>There are two statements marked as Assertion (A) and Reason (R). Mark your answer as per the options provided below:</p> <p>Assertion: The executive plays an important role in overseeing the implementation of constitutional provisions and procedures. Reason: In case of any dispute about the division of powers, the High Courts and the Supreme Court took the final decision.</p> <p>Options:- A. Both A and R are true and R is the correct explanation of A B. Both A and R are true but R is not the correct explanation of A C. A is true but R is false D. A is false but R is true</p>
9	<p>In terms of languages, which country is perhaps the most diverse country in the world?</p> <p>A. Srilanka B. India C. Belgium D. Japan</p>
10	 <p>What does the picture explain?</p> <p>A. Economic crisis B. Centre and State relation C. Dictatorship D. All of the above</p>

Class: X

Department: Social Science

Sub: CIVICS

Chapter-2
WS. No:2

Topic: FEDERALISM

Year: 2024-25

1. Which among the following is an example of a unitary system of government?
A. Belgium
B. Sri Lanka
C. India
D. None of the above
2. Which of the following statements are true about the federal system of government?
A. Federalism is a system of government in which the power is divided between a central authority and various constituent units of the country
B. Usually, a federation has two levels of government
C. In federalism, there will be a government at the level of provinces or states that look after much of the day-to-day administering of their state
D. All of the above
3. Which of the following is not an example of 'coming together' federations?
A. Switzerland
B. USA
C. India
D. Australia
4. If there is a conflict in the laws made for the subjects in the Concurrent List, then the decision made by the _____ will prevail.
A. State Government
B. Union Government
C. President
D. Chief Minister
5. Match the following items given in Column A with those in Column B.

Column A

- I. Information Technology
- II. Police
- III. Education
- IV. Defence

Column B

1. Concurrent List
2. Union List
3. State List
4. Residuary Subjects

Choose the correct answer from the options given below:

Options:-

- A. I-4, II-2, III-1, IV-3
- B. I-3, II-4, III-1, IV-2
- C. I-4, II-1, III-3, IV-2
- D. I-4, II-3, III-1, IV-2**

Class: X

Subject: Economics

Assignment 1

Chapter: Development

Short answer questions

1. What is the most common method of measuring the economic development of a country?
 - a) Equal treatment
 - b) Freedom
 - c) Security
 - d) Income
2. Which area of the world has the largest crude oil reserves?
 - a) U.S.A
 - b) Russia
 - c) the Middle East
 - d) China
3. What are the criteria used by the UNDP for measuring development?
 - a) Per Capita Income
 - b) Health
 - c) Education
 - d) All the above
4. What was India's Per Capita Income in 2004 as per world development report 2006?
5. What was IMR of Punjab in 2003?
6. Which of the following cannot be bought with money
 - a) A Chair
 - b) Pollution free environment
 - c) Food
 - d) Clothing
7. For how long would the crude oil reserves of the world last?
8. Which of the following neighbouring countries has better performance in terms of human development than India?
 - a) Bangladesh
 - b) Nepal
 - c) Sri Lanka
 - d) Pakistan
9. Average Income is also called _____.
10. Literacy rate measures the proportion of literate population in which age group?
11. Why do different people have different notions of development?
12. Why do we use averages? What are the limitations to their use?
13. What is National Income?
14. What is Per Capita Income?
15. What is sustainable development? Give its importance.

Long answer questions

16. Define IMR, literacy rate, net attendance ratio, life expectancy at birth and gross enrolment ratio.
17. List some common goals that are desired generally by all types of people.
18. Name and explain the two main basis that are used to compare development levels of different places.
19. Explain the classification of counties as per World Development Report 2006.
20. Explain Human Development Index.
21. Compare UNDP's and World Bank's criterion for measuring development.
22. What are the limitations of using per capita income as a development indicator.
23. Kerala has lower per capital income than Punjab but a better human development ranking. Explain.
24. Explain which all public facilities are important for human development .
25. Write a short note on problem of ground water in India.
26. What is development?

WORKSHEET ON POWER SHARING

1. Why is the ethnic composition of Belgium very complex?
2. Give an account of the ethnic composition of Sri Lanka.
3. Describe the provisions of the act which was passed in Sri Lanka in 1956 to establish Sinhala supremacy?
4. Explain the elements of Belgian model of power sharing.
5. Mention three demands put forward by the Sri Lankan Tamils.
6. 'Sharing of power makes a country more powerful and united' –Justify.

OR

'Power sharing is the very spirit of democracy' – Justify the statement with three suitable examples.

7. In modern democracies power is often shared among different organs of the government – Explain.
8. Compare the different ways in which Belgium and Sri Lanka dealt with the problem of cultural diversity.

LONG ANSWER TYPE QUESTIONS:

(5 MARKS)

1. Why is power sharing necessary in a democracy?

OR

Explain the prudential and moral reasons of power sharing.

2. Describe the vertical and horizontal power sharing in modern democracies.
3. How is power shared among political parties and pressure groups? What does it ensure?

हिंदी

1. पढ़ाई गए सभी पाठकों की पुनरावृत्ति तथा अभ्यास करें
 2. नगर निगम के स्वास्थ्य अधिकारी को लगभग 100 शब्दों में खाद्य पदार्थों में मिलावट पर अंकुश लगाने के लिए कड़े कदम उठाने का आग्रह करने हेतु पत्र लिखें (व्याकरण नोटबुक में)
 3. प्रधानाचार्य क ख ग उच्चतर माध्यमिक विद्यालय की ओर से जिला के मुख्य चिकित्सा अधिकारी को लगभग 100 शब्दों में एक पत्र लिखें जिसमें विद्यालय के छात्रों के स्वास्थ्य परीक्षण का निवेदन किया गया हो (व्याकरणनोटबुक में)
 4. कम से कम 20-20 मुहावरों का प्रयोग करते हुए दो लघु कथा लिखे जिसमें कोई सामाजिक सीख दी जा रही हो तथा कहानी को उपयोग शीर्षक दें, (कमेंट सीट में)
 5. रचना के आधार पर वाक्य भेद में 20 सरल वाक्य लिखे तथा उन्हें के संयुक्त एवं मिश्र वाक्य भी बनाएं
 6. कबीर का कोई एक दोहा
- जो आपको पसंद हो को चार्ट पेपर पर चित्रात्मक ढंग से हिंदी सहित लिखें।
7. पोर्टफोलियो बनाएं
 8. कोई भी 10 वस्तु जो कि आपकी रोजमर्रा की जरूरत की हो के विज्ञापन समाचार पत्र से अपने नोटबुक में काटकर चिपकाए

Science

Name of portfolio: The world of reactions(chemistry)

1. Portfolio Structure and Layout

A high-quality portfolio should be organised into clear, visually engaging sections.

Cover Page: A creative title like "The World of Reactions" with hand-drawn illustrations of lab apparatus, molecular structures, or colorful explosions.

Index & Introduction: A clear table of contents followed by a brief introduction to why chemical reactions are essential to life .

Artistic Dividers: Use A4 interleaf sheets so that one side is for text and the blank side is for diagrams and chemical equations.

2. Core Content Sections

Students should include at least 5 chemical equations for each of the following major types of reactions.

Combination Reactions

Decomposition Reactions

Displacement & Double Displacement:

Redox Reactions:

Every reaction should be accompanied by a clear, labeled diagram.

Experimental Setups: Draw diagrams of activities like heating ferrous sulphate crystals or the electrolysis of water.

Concept Maps: Include a mind map that summarizes all reaction types, their characteristics (color change, gas evolution, etc.), and daily life examples.

students to perform safe experiments and document them with photos or sketches. For example:

Vinegar and Baking Soda

Rusting of Iron

Invisible Ink

Students can dedicate a section to chemistry in everyday life.

Topic : Light reflection and refraction (physics)

[Ray Diagrams (Concave): Draw all 6 positions. Focus on how the image changes from real/small to virtual/magnified .

1. Reflection & Mirrors

Ray Diagrams (Convex): Show the 2 positions. Note that it always gives a virtual, diminished, and erect image.

Everyday Uses:

Concave: Dentists' mirrors, car headlights (parallel beams), and solar cookers.

Convex: Rear-view mirrors (wide field of view) and blind-spot mirrors in parking lots.

2. Refraction & Lenses

Glass Slab Experiment: Diagram showing lateral displacement and the incident ray parallel to the emergent ray.

Ray Diagrams (Convex Lens): Draw all 6 cases. Highlight the "magnifying glass" position (object between F and O).

Ray Diagrams (Concave Lens): Show the diverging nature and virtual image formation.

Everyday Uses:

Convex: Correction of Hypermetropia (long-sightedness) and magnifying glasses.

Concave: Correction of Myopia (short-sightedness) and peepholes in doors.

3. Mathematical Basics

Mirror & Lens Formulas: Magnification

Power of Lens:

4. Interactive File Ideas

Mirror/Lens Samples: Paste small strips of foil (concave/convex shape) or clear plastic to represent lenses.

Observation Table: A simple table comparing "Object Position" vs. "Image Nature" for quick revision.

DIY Photo: A photo of the "Pencil in Water" experiment with a 2-line explanation of why it looks broken.

Prepare separate files for physics and chemistry.

Subject: IT (402)

ART INTEGRATED PROJECT WORK

Project Topic 1: Cyber Safety and Digital Awareness

Include

- Cybercrime
- Phishing
- Malware
- Password Security
- Digital Footprint
- Safe Social Media Practices

Activity

- Create a colourful chart/poster.
 - Paste pictures and slogans.
-

Project Topic 2: Artificial Intelligence in Daily Life

Include

- Introduction to AI
- Uses of AI
- Advantages and disadvantages
- AI in education and healthcare

Activity

- Prepare a PPT of 8–10 slides.
 - Add animations and pictures.
-

Project Topic 3: Digital India Mission

Include

- Objectives of Digital India
- Benefits of digital services
- UPI and digital payments
- Online education platforms

Activity

- Create a report with pictures.
 - Draw a flowchart showing digital services.
-

PRACTICAL ACTIVITIES

Activity 1: Create a Resume

- Use LibreOffice Writer. Add personal details, education, skills, and hobbies.

Activity 2: Prepare Marksheet

- Use spreadsheet formulas. Create bar chart and pie chart.

Activity 3: Design Presentation

- Create presentation on “Importance of Internet”. Add transitions and animations.

Activity 4: Internet Research

- Search information about latest technologies.
 - Write short notes on: AI, Cloud Computing, Robotics, Cyber Security