



# CAMBRIAN PUBLIC SCHOOL

## Kanke Road, Ranchi

### *Summer Assignment* (Session 2026-27)

Class : .....X.....

#### General Instructions:

1. Complete all the questions neatly in your notebook / A4 size assignment sheet as instructed.
2. Maintain proper handwriting and presentation.
3. Revise the syllabus covered before attempting the assignment.
4. Submit the assignment on the first day after the Summer Vacation.
5. Parents are requested to guide and encourage their ward to complete the work independently.

#### Subject- Maths

#### Real Numbers

##### Important Results

1. H.C.F (a, b, c) = product of least +ve integral powers of common prime numbers involved in the factorization of a, b, c.
2. L.C.M (a, b, c) = product of greatest positive integral powers of common all prime numbers involved in the factorization of a, b, c.
3. L.C.M (a, b) x H.C.F (a, b) = a, b
4. The digit at unit's place in an integer of the form  $a^n$ ,  $a, n \in \mathbb{N}$  will be 0 if positive integral powers of 2 and 5 (both) occur in the prime factorization of the integer.
5. The digit at unit's place in integer  $a^n$ ,  $a, n \in \mathbb{N}$  is 5 if prime factorization of a contains 5 and does not contain 2.
6. If a is a positive integer and p is a prime number which divides  $a^2$ , then p divides a.

1. Express each of the following numbers as the product of prime factors (i) 9240 (ii) 10080 (iii) 2825
2. Find the HCF and LCM of 336 and 54 by prime factorization method and verify that: LCM x HCF = product of two numbers.
3. The LCM of 2 numbers is 14 times their HCF. The sum of LCM and HCF is 600. If one number is 280. They find the other number.
4. Explain why  $7 \times 11 \times 13 \times 17 + 17$  is a composite number.
5. Prove that  $\sqrt{7}$  is irrational.
6. Three bells toll at intervals of 9, 12, and 15 minutes respectively, if they toll together at 6.00 AM, when they will next toll together.

#### Polynomials

##### Important Results

1. The graph of a linear polynomial is a straight line.
2. The graph of quadratic polynomial is a parabola opening upward or downward according as coefficient of  $x^2$  is a positive or negative.
3. A quadratic polynomial whose zeroes are  $\alpha$  and  $\beta$  is  $x^2 - (\alpha + \beta)x + \alpha\beta$ .

4.  $\alpha^2 + \beta^2 = (\alpha + \beta)^2 - 2\alpha\beta$
5.  $(\alpha - \beta)^2 = (\alpha + \beta)^2 - 4\alpha\beta$
6.  $|\alpha - \beta| = \sqrt{(\alpha + \beta)^2 - 4\alpha\beta}$
7.  $\alpha^3 + \beta^3 = (\alpha + \beta)^3 - 3\alpha\beta(\alpha + \beta)$
8.  $\alpha^3 - \beta^3 = (\alpha - \beta)^3 + 3\alpha\beta(\alpha + \beta)$

1. Find the zeroes of the polynomials and verify the relationship between the zeroes and the coefficients

(a)  $3x^2 + 5x - 2$       (b)  $x^2 + 7x + 10$       (c)  $4S^2 - 4S + 1$

2. Find a quadratic polynomial whose zeroes are:  $3 + \sqrt{7}$ ,  $3 - \sqrt{7}$

3. If  $\alpha$  and  $\beta$  are the zeroes of the quadratic polynomial  $x^2 - 5x + 4$ , find the value of

(i)  $\alpha^2 + \beta^2$     (ii)  $\alpha^3 + \beta^3$     (iii)  $\frac{1}{\alpha^2} + \frac{1}{\beta^2}$

4. Graphically find the zeroes of (i)  $2x^2 - 8x + 6$     (ii)  $x^2 - 1$

5. If 2 and -3 are the zeroes of the quadratic polynomial  $x^2 - (a+1)x + b$ , then find the value a and b.

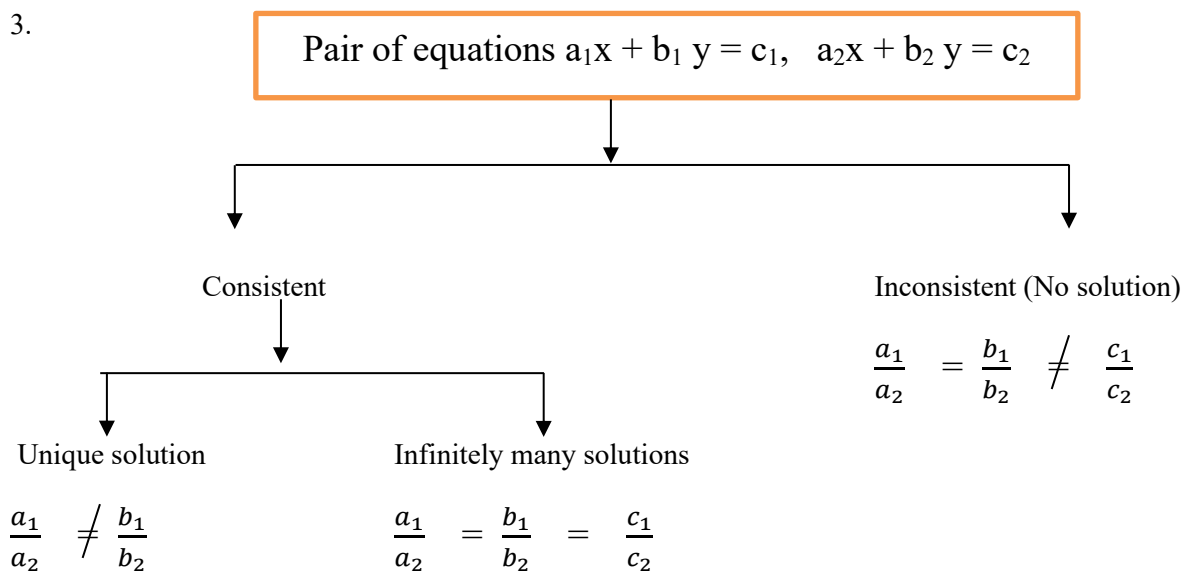
## Linear equation in two variables

### Important points

1. A pair of values of x and y which satisfy both the linear equations is called solution of the given pair of linear equations.

2. A pair of linear equations (simultaneous equation) is said to be consistent if its solution exists and it is said to be inconsistent if its solution does not exist.

3.



1. For what values of a and b does the following pair of linear equations have an infinite number of solutions?

$2x + 3y = 7$  and  $a(x + y) - b(x - y) = 3a + b - 2$ .

2. For what value of k will the pair of equations have no solution?

$3x + y = 1$  and  $(2k - 1)x + (k - 1)y = 2k + 1$

3. Solve graphically: (i)  $2x + y = 6$ ,  $4x - 2y = 4$     (ii)  $5x + 7y = 50$ ,  $7x + 5y = 46$ .

4. Solve for x and y (i)  $\frac{57}{x+y} + \frac{6}{x-y} = 5$ ,  $\frac{38}{x+y} + \frac{21}{x-y} = 9$

(ii)  $\frac{a}{x} - \frac{b}{y} = 0$ ,  $\frac{ab^2}{x} + \frac{a^2b}{y} = a^2 + b^2$ ,  $x, y = 0$  / (iii)  $\frac{1}{x} - \frac{1}{y} = 1$ ,  $\frac{1}{x} + \frac{1}{y} = 7$ ,  $x, y = 0$

(iv)  $8x + 5y = 9$ ,  $3x + 2y = 4$     (v)  $x + 4y + 9 = 0$ ,  $5x - 1 = 3y$

5. If the cost of 2 pencils and 3 erasers is Rs 9 and the cost of 4 pencils and 6 erasers is Rs 18. Find the cost of each pencil and eraser.

**Activity-1** To verify the conditions for the consistency/ inconsistency for a pair of linear equations in two variables by graphical method (a)  $x + y - 10 = 0$ ,  $x - y + 4 = 0$  (b)  $x + Y = 7$ ,  $2x + 2y = 4$

(c)  $2x + 4y = 12$ ,  $x + 2y = 4$ . (write in activity copy)

**Activity-2** To draw the graph of the quadratic polynomial and observe

(i) The shape of the curve, when the coefficient of  $x^2$  is positive.

(ii) The shape of the curve, when the coefficient of  $x^2$  is negative.

(iii) its number of zero

(a)  $p(x) = -x^2 + x + 2$  (b)  $p(x) = x^2 - 4x + 3$  (c)  $p(x) = x^2$  (d)  $p(x) = x^2 - 2x + 1$

(e)  $p(x) = -x^2 + 2x + 5$  (f)  $p(x) = x^2 - 4x + 5$  (write in activity copy)

### \*खंड-क: रचनात्मक लेखन |

#### \*1. अनुच्छेद लेखन | 100-120 शब्द\*

निम्नलिखित में से किसी \*एक\* विषय पर अनुच्छेद लिखिए:

क. कृत्रिम बुद्धिमत्ता: वरदान या अभिशाप

ख. मेरी प्रिय पुस्तक जिसने मेरी सोच बदल दी

ग. "एक पेड़ माँ के नाम" – अभियान की सार्थकता

#### \*2. पत्र लेखन

क. आपके क्षेत्र में बढ़ते साइबर फ्रॉड की रोकथाम हेतु पुलिस अधीक्षक को पत्र लिखिए.

\*अथवा\*

ख. छोटे भाई को मोबाइल का सीमित व सार्थक उपयोग बताते हुए पत्र लिखिए.

#### \*3. संदेश लेखन | 30-40 शब्द\*

क. आपकी माताजी बाजार गई हैं. बिजली विभाग से फोन आया कि कल 8 से 2 बजे तक बिजली नहीं रहेगी. पिताजी के लिए संदेश लिखिए.

\*अथवा\*

ख. आपके मित्र ने बोर्ड परीक्षा में जिले में प्रथम स्थान प्राप्त किया है. उसे बधाई संदेश लिखिए.

#### \*4. विज्ञापन लेखन | 50 शब्द\*

क. "मधु-हर्बल शहद" के लिए आकर्षक विज्ञापन तैयार कीजिए.

\*अथवा\*

ख. आपके विद्यालय द्वारा आयोजित "ग्रीष्मकालीन हिंदी लेखन कार्यशाला" का विज्ञापन लिखिए.

#### \*5. ई-मेल लेखन

क. प्रधानाचार्य को ई-मेल लिखकर विद्यालय में "साहित्य क्लब" शुरू करने का सुझाव दीजिए.

To: principal@school.com | Subject: साहित्य क्लब प्रारंभ करने हेतु अनुरोध

\*अथवा\*

ख. अपने मित्र को ई-मेल लिखकर ग्रीष्मावकाश में किए गए सामाजिक कार्य का अनुभव साझा कीजिए.

### \*खंड-ख: प्रोजेक्ट कार्य |

\*पाठ: राम-लक्ष्मण-परशुराम संवाद | क्षितिज भाग-2\*

\*शीर्षक: "संवाद से चरित्र निर्माण: राम-लक्ष्मण-परशुराम संवाद का मंचन व विश्लेषण"\*

\*कार्य:\*

1. \*पांडुलिपि लेखन – 5 अंक:\* पाठ को सरल हिंदी में संवाद-शैली में लिखें. हर पात्र की 8-10 पंक्तियाँ हों.

2. \*चरित्र चित्रण – 5 अंक:\* राम, लक्ष्मण व परशुराम – तीनों के 5-5 चारित्रिक गुण उदाहरण सहित A-4 पर लिखें. चित्र भी चिपकाएँ.

3. \*मूल्य-आधारित विश्लेषण – 5 अंक:\* इस संवाद से आपको कौन-से 3 जीवन-मूल्य मिलते हैं? 100 शब्दों में लिखें. जैसे: धैर्य, विनम्रता, क्रोध पर नियंत्रण.

4. \*रचनात्मक प्रस्तुति – 5 अंक:\* कोई एक विकल्प चुनें:

क. संवाद का रोल-प्ले करके 2 मिनट का वीडियो बनाएँ व QR कोड फाइल में लगाएँ.

ख. संवाद पर आधारित कॉमिक स्ट्रिप 6-8 बॉक्स में बनाएँ.

ग. "यदि परशुराम आज के युग में होते तो?" विषय पर 150 शब्द का काल्पनिक संवाद लिखें.

\*मूल्यांकन बिंदु: \* विषय-वस्तु 40%, भाषा-प्रस्तुति 30%, मौलिकता 20%, समय पर जमा 10%

**\*खंड-ग: अपठित बोध अभ्यास |**

1. समाचार-पत्र से पर्यावरण / शिक्षा संबंधी एक गद्यांश काटकर चिपकाएँ व उस पर 5 प्रश्न स्वयं बनाकर उत्तर लिखें.

### विषय- संस्कृत

1."स्वच्छं जलं स्वच्छतां च" इति विषयम् अधिकृत्य दिल्लीनगरस्य अन्डमान निकोबारद्वीपसमूहस्य च स्वच्छतायाः विषये पञ्चवाक्यानि लिखत। तयोः जलसंरक्षणं कथं भवतु इति विषयम् अधिकृत्य चित्रं रचयत।

2.नास्ति त्यागसमं सुखम् इति कथायाः सचित्रसारं लिखत।

3.अधोलिखितेषु विषयेषु पञ्चवाक्यानाम् सचित्र-अनुच्छेदं लिखत।

**मम प्रिया क्रीडा, पुस्तकालयः, मैट्रोरेलयात्रा**

4.मञ्जूषायाः सहायतया निम्नलिखितां कथापूर्तिं कुरुत-

एकः वृक्षः स्व-आत्मकथां (i).....। मम जन्मस्थानम्

एकं (ii) .....आसीत्। प्रारम्भे अहं लघुः एव आसम्

परन्तु शनैः-शनैः (iii) .....जातः। मम शाखाः

(iv)..... पत्राणि च मनोहराणि आसन्। अहं श्रान्तानां (v) ..... आश्रयः पक्षिणां निवासः च अस्मि। सर्वे जीवाः प्राणवायु

अत्र एव (vi) .....अहं परोपकारी धैर्यवान् च अस्मि। मनुष्याः यदा वृक्षं (vii)..... तदा अहं जीवनस्य सुखम् अनुभवामि।

अहं जनेभ्यः अभीष्टानि (viii)..... यच्छामि। मम जीवनं तु (ix).....एव अस्ति। परं लोभवशात् मनुष्यः वृक्षं छित्वा

(x)..... एव करोति। वृक्षाणां संरक्षणमेव जीवनम् अस्ति।

**मञ्जूषा:-**

आत्महानिम्, पथिकानां, पोषयन्ति, कथयति, हरिताः, वनम्, उन्नतः, वस्तूनि, अन्येभ्यः प्राप्नुवन्ति।

5.अधोदत्तं चित्रं दृष्ट्वा मञ्जूषायां प्रदत्तशब्दानां संस्कृतेन पञ्च-वाक्यानि लिखत।



**मञ्जूषा:-**

वर्षायाः, चित्रम्, वर्षा-ऋतौ, मार्गे जलं भरितं वर्तते, द्वे कन्ये, जले, चलतः, ते प्रसीदतः, अनेके जनाः, इतस्ततः, छत्रं, नीतव्यं, गच्छन्ति।

## Subject- English

Instruction: - H.W has to be done in Grammer and Literature copy.

NCERT & COMPETENCY BASED QUESTIONS (FIRST FLIGHT AND FOOTPRINTS WITHOUT FEET)

### 1. Case-Based Questions (ANY TWO)

Case 1: A Letter to God

A farmer loses his crops due to heavy rain and seeks help.

Q. If Lencho lived in today's digital world, how might technology help him?

(Explain in 40–50 words)

Case 2: Dust of Snow

A student is upset after failing an exam.

Q. How can nature help change one's mood, as shown in the poem?

Case 3: Fire and Ice

The world today faces many conflicts.

Q. Which is more dangerous today—unchecked desire or hatred? Justify.

Case 4: A Triumph of Surgery

A pet owner feeds their dog junk food daily.

Q. What advice would Dr. Herriot give?

Case 5: The Thief's Story

A boy gets tempted to cheat in exams.

Q. How can Anil's values help him choose correctly?

### ASSERTION–REASON QUESTIONS

#### 2. Choose the correct option.

1. Assertion: Lencho had complete faith in God.

Reason: He had no one else to seek help from.

2. Assertion: The dust of snow changed the poet's mood.

Reason: Small events can create big emotional changes.

3. Assertion: Tricky was unhealthy.

Reason: He exercised regularly.

4. Assertion: Hari Singh changed eventually.

Reason: Trust can transform character.

5. Assertion: Fire symbolizes desire.

Reason: Desire always creates happiness.

2. Letter to the Editor

Write any ONE letter (100–120 words).

1. Write to the editor about increasing screen addiction among teenagers.

**OR**

3. Write to the editor highlighting the importance of reading habits among students.

### ART-INTEGRATED PROJECT

1. Choose ANY TWO

🎨 Activity 1: Story Illustration Booklet

Create a mini booklet illustrating:


Lencho waiting for rain

The post office scene

Dr. Herriot treating Tricky

Hari Singh returning the money

Add 2–3 line explanations.

 Activity 2: Theme Poster

Make a poster on:

“Nature’s Power to Heal”

Use references from:

Dust of Snow

Fire and Ice

Include quotes and drawings.

 Activity 3: Role Play Script

Write a short dramatic script:

Option A: Conversation between Lencho and the postmaster

Option B: Conversation between Hari Singh and Anil after confession

(10–12 lines)

**INTEGRATED GRAMMAR**

**1. Editing**

**Edit the paragraph:**

Lencho wait for the rain. The cloud was approaching Fastly. He were happy because his crop was save.

**1. Gap Filling**

Fill in using correct tense/modal/determiner.

Lencho \_\_\_\_\_ (wait) for rain anxiously.

You \_\_\_\_\_ help people in need.

\_\_\_\_\_ postmaster was kind-hearted.

Hari Singh \_\_\_\_\_ (realise) his mistake later.

Tricki \_\_\_\_\_ be taken for walks.

**2. Sentence Transformation**

Lencho was poor. He was hopeful.

(Combine using “although”)

Hari stole money.

(Change into passive voice)

The doctor treated Tricki.

(Change tense)

**8. Error Identification**

**Identify and correct:**

He do not trust anyone.

The boys was running.

She have completed the work.

**9. HIGHER ORDER THINKING SKILL**

Long Answer (120–150 words)

“Trust and kindness can transform lives.”

Discuss with reference to:

A Letter to God

The Thief’s Story

## Subject- Science

### Physics (Chapter: Light – Reflection & Refraction)

#### Objective:

To understand the concepts of light and relate them with real-life applications across different subjects.

#### Section A: Physics (Core Concepts)

##### 1. Define:

- Reflection of light
- Refraction of light
- Principal focus
- Focal length

##### 2. State laws of:

- Reflection
- Refraction

##### 3. Differentiate between:

- Concave and Convex mirror
- Real and Virtual image

##### 4. Solve numerical:

- Find the image distance for an object placed 10 cm from a concave mirror of focal length 15 cm.
- A ray passes from air to glass ( $n = 1.5$ ). Calculate angle of refraction if angle of incidence is  $30^\circ$ .

#### Section B: Mathematics Integration

Mirror Formula:  $1/f = 1/v + 1/u$

Lens Formula:  $1/f = 1/v - 1/u$

1. Solve all the NCERT numerical using these formulas.
2. Draw ray diagrams using proper scale.

#### Section C: Art Integration

##### 1. Draw neat ray diagrams for:

- Image formation by concave mirror
- Image formation by convex lens.

#### Section D: Activity / Experiment

Take a glass of water and place a pencil inside it.

- Observe how the pencil appears bent
- Explain using refraction
- Write observation and conclusion (5–6 lines)

#### Bonus Task:

Imagine a world without light. Write 5 points explaining its impact.

#### Instructions:

- Complete in a neat notebook.
- Use diagrams wherever required
- Submit after summer vacation
- Maintain originality and creativity

### Chemical Reactions and Equations

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#### General Instructions:

1. Complete the assignment in your Science Notebook / A-4 sheets.
2. Write balanced chemical equations wherever required.

3. Use correct symbols and formulas.
4. Maintain neatness and proper presentation.
5. Submit the assignment on the first day after summer vacation.
6. Parents are requested to guide and encourage their wards to complete the work independently.

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Activity Task: Creative Assignment

Chemical Reactions in Daily Life – Poster Making

Prepare a poster showing:

- At least 3 types of chemical reactions
- Daily life examples (rusting, digestion, burning, etc.)
- Write 3 catchy slogans

Example: “React with care, Chemistry is everywhere!”

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Academic Task: Competency-Based Questions (CBQs)

Q1. Chemical Reactions in Daily Life

Write a short paragraph explaining:

- What is a chemical reaction
- Signs of a chemical reaction
- Two examples

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Q2. Case Study: Rusting of Iron

A bicycle left in rain develops a reddish-brown coating.

- a. Identify the type of reaction.
- b. Write the balanced chemical equation:  
 $4\text{Fe} + 3\text{O}_2 + x\text{H}_2\text{O} \rightarrow 2\text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$
- c. Mention two methods to prevent rusting.

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Q3. Balancing Chemical Equations

Balance the following:

- a.  $\text{Fe} + \text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + \text{H}_2$
- b.  $\text{Zn} + \text{HCl} \rightarrow \text{ZnCl}_2 + \text{H}_2$
- c.  $\text{Al} + \text{O}_2 \rightarrow \text{Al}_2\text{O}_3$

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Q4. Types of Chemical Reactions

Classify the following reactions:

- a.  $\text{CaO} + \text{H}_2\text{O} \rightarrow \text{Ca}(\text{OH})_2$
- b.  $\text{Pb}(\text{NO}_3)_2 + \text{KI} \rightarrow \text{PbI}_2 + \text{KNO}_3$
- c.  $\text{CuO} + \text{H}_2 \rightarrow \text{Cu} + \text{H}_2\text{O}$

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Q5. Life Skills-Based Question

- Why should we avoid reusing cooking oil repeatedly?
- How does chemistry help in safe food practices and environmental protection?

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Critical Thinking Task

A slice of bread turns greenish after a few days.

- a. Is this a chemical or physical change? Why?
- b. What conditions promote this change?
- c. How can it be prevented?

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Skill-Based Task

Observe and list 5 chemical reactions around you. Mention their type and importance.

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Explore, experiment, and enjoy learning Chemistry!

**Biology**

Chapter: Life Processes

1. Explain in detail how the process of nutrition takes place in human beings, including ingestion, digestion, absorption, assimilation, and egestion, and describe the role of different organs involved in this process.

2. Describe the structure and functioning of the human digestive system, explaining how food is broken down into simpler substances and absorbed into the bloodstream for providing energy and growth.
3. Explain the process of respiration in living organisms, differentiating clearly between aerobic and anaerobic respiration, and describe how energy is released from food in the form of ATP.
4. Describe the structure of the human heart, including its chambers, valves, and blood vessels, and explain how it pumps blood continuously throughout the body in a coordinated and rhythmic manner.
5. Explain how transportation of substances occurs in human beings, including the role of the heart, blood, and blood vessels in carrying oxygen, nutrients, hormones, and waste materials.
6. Describe the composition of blood and explain the functions of its components such as red blood cells, white blood cells, platelets, and plasma in maintaining proper body function.
7. Explain the process of excretion in human beings, including the removal of nitrogenous wastes, and describe the role of kidneys, ureters, urinary bladder, and urethra in this process.
8. Describe the structure and function of the nephron, explaining how it helps in filtration, reabsorption, and secretion to maintain water balance and remove waste products from the blood.
9. Explain how transportation occurs in plants, describing the role of xylem in water transport and phloem in food transport, and how these processes are essential for plant survival.
10. Describe the process of transpiration in plants, explaining how water is lost through stomata, and discuss its importance in cooling, water movement, and maintaining the balance of water in plants.

#### Section B: Art Integrated Work (A4 Colorful Diagrams)

Draw any 2–3 diagrams on A4 size paper (colorful & labelled):

1. ♥ Human Heart
2. □□ Human Respiratory / Excretory / Digestive System
3. □□ Stomata (Open and Closed)
4. □□ Nephron Structure

#### Diagram Instructions

- Use A4 size paper
- Draw with pencil first, then fill colors
- Label all parts clearly
- Write heading (e.g., “Human Heart”)
- Maintain neatness and proper border
- Make diagrams big and clear

### Subject- Social Science

#### A. History

1. Research one industrialist or inventor – James Watt, Richard Arkwright, Jamshedji Tata, or Dwarkanath Tagore. Write 150 words on their contribution.
2. Make a split poster showing “Production Before Machines”  
vs  
“Production After Machines”.

#### B. Geography

1. Interdisciplinary Question: Land Use Pattern in India  
“India’s land use pattern reflects a complex interaction of physical, economic, and socio-cultural factors.”
  - i. Explain how relief, climate and soil types of influence land use patterns in different regions of India?
  - ii. Analyze how agricultural practices, industrialization and urbanization have altered land use patterns over time?
  - iii. Evaluate the environmental consequences of changes in land use, such as deforestation, land degradation and biodiversity loss.
2. Project based question.
  - i. Prepare a map of India showing soil distribution and label the major regions. Add a brief description of each soil type.

#### C. Civics

Very short, answer type questions:

1. What is meant by power sharing?
2. Name the country famous for its model of power sharing.
3. Who are the two main linguistic groups in Belgian?
4. What is community government?
5. Define majoritarianism

Long answer, type questions:

1. Explain the ethnic composition of Belgium and how it's accommodated?
2. Describe the majoritarian measures taken by Sri Lanka, government and their impact.
3. Explain the four forms of power sharing with examples.
4. Power sharing is the very spirit of democracy "justify this statement.

### **Creative charts prepare**

Draw a colorful chart showing:

1. Horizontal distribution - legislature, executive and judiciary
2. Vertical distribution - Central, State, Local governments
3. Power sharing among social groups - example Belgium
4. Power sharing among political parties - Coalition government.

### **D. Economics**

1. Prepare a project on Sustainable Development.
2. Why is the issue of sustainability important for development?

## **Subject-Information Technology (402)**

### **Competency based questions**

- Q1 Amit is working in a office. His boss asked him to prepare PPT reflecting achievements of the company and explain the viewers the relevant theme. He is fully stressed how to prepare for it. You are communication expert suggest him what steps he will take to present the content effectively. Explain briefly.
2. Create Art integrated design representing the Effective Communication skills II in organized way highlighting the key factors like Types of communication, Elements of communication, 7 C's of communication skills as well as Self-management skills II key factors.
  - 3 Discuss the different factors responsible for stress in human life. Also suggest different techniques to reduce stress.
  - 4 Complete exercises of ch-1 & Ch-2 in CW copy covering all topics.
  - 5 Watch the significant videos of Swati chawla on advanced digital documentation covering topic on styles as well as implementation of images in documents. Prepare the report highlighting the key points.