

CAMBRIAN PUBLIC SCHOOL,KANKE ROAD,RANCHI

SESSION-2024-25

ग्रीष्मावकाश गृहकार्य

कक्षा- IX

विषय - हिंदी

1. पत्र लेखन

क. अपने विद्यालय में छात्र- छात्राओं के लिए उत्तम पेयजल व्यवस्था के संबंध में कुछ सुझावों का उल्लेख करते हुए अपने प्रधानाचार्य महोदय/महोदया को पत्र लिखिए ।

ख. अपने क्षेत्र में पेड़-पौधों की अनियंत्रित कटाई को रोकने के लिए जिलाधिकारी को पत्र लिखिए ।

2. अनुच्छेद लेखन

क. बढ़ता तनाव- एक समस्या

संकेत बिंदु-

तनाव की प्रकृति

कारण

दूर करने के उपाय ।

ख. बाल – श्रमिक समस्या

संकेत बिंदु -

• बाल श्रमिक का आशय

• गरीबी मुख्य कारण

• समाधान ।

3. उपसर्ग और प्रत्यय से 10-10 शब्द बनाइए -

क. निम्नलिखित शब्दों में प्रयुक्त उपसर्ग एवं मूल शब्द लिखिए –

अपकीर्ति , प्रतिवेदन , परिधान, निरभिमान

ख. निम्नलिखित उपसर्ग लगाकर दो शब्द बनाइए-

अव , अभि, अनु, अति

ग. निम्नलिखित शब्दों में प्रयुक्त एक मूल शब्द लिखिए-

अव , अभि, अनु, अति

घ. निम्नलिखित प्रत्यय लगाकर दो -दो शब्द बनाइए-

वान , वादी, दारी ,कार

4. क्षितिज भाग-1 से पाठ संख्या 7 का प्रश्न – उत्तर लिखें ।

Subject- English

1. Summarize any one of the chapters mentioned below in 150-180 words and make a pictorial representation of it.

The Road Not Taken

The Lost Child

The Fun They Had

2. Do you think technology can replace human brain. Critically analyse with the reference to the chapter " The Fun they had".

3. Write an application to the principal requesting him/ her to organise a summer camp for the students.

4. Fill in the blanks:

i.) I _____ bat well. (Can/ should)

ii) You _____ greet your elders every morning. (Mustn't/ should)

iii) _____ I come in ? Yes, you _____ (can/ may)

iv) I _____ turnt up at the party after all. (Might/ may)

v) you _____ wake up early every morning. (Should/ ought to).

विषय - संस्कृतम्

मणिका पाठ्य-पुस्तक भाग - 1

पाठ : 1 & 2 प्रश्नों के उत्तर लिखकर याद करें ।

पाठ 1: प्रश्न संख्या 1,2,3,5,6,7 (उत्तर पुस्तिका में लिखें।)

पाठ 2 : प्रश्न संख्या 1, 2, 3, 5, 6, 9, 10 (उत्तर पुस्तिका में लिखें।)

संधि : स्वर संधि के पांचों भेद उदाहरण सहित लिखकर याद करें ।

शब्दरूप : बालक , रमा , नदी, कवि और फल के रूप लिखें।

सर्वनाम शब्द : तत् और किम् (तीनों लिंगों में) के रूप लिखें।

धातुरूप : भू, पठ् , नम् और गम् के रूप लट् , लोट् और लृट् लकारों में लिखें।

Class IX Holiday Homework

Subject: Mathematics

Instructions: Answer all questions neatly in your notebook. The holiday homework is due on the first day of school after the break.

Chapter 1: Number System

1. Define the following terms:
 - a) Rational Numbers
 - b) Irrational Numbers
 - c) Real Numbers
2. Prove or disprove the following statement: "The sum of a rational number and an irrational number is always irrational."

Chapter 2: Polynomials

3. Simplify the following expressions:
 - a) $3x^3 - 2x^2 + 5x - 7 + 4x^3 - x^2 + 3x - 9$
 - b) $5x^4 - 2x^3 + 6x^2 - 4x + 3 - (3x^4 + 5x^3 - 2x^2 + 7x - 1)$
4. Factorize the following polynomials, if possible:
 - a) $x^3 + 6x^2 + 11x + 6$
 - b) $3x^4 - 16x^3 + 27x^2 - 18x + 4$
5. Solve the equation $2x^2 - 5x + 2 = 0$ using the quadratic formula and state the nature of roots.

Subject-Physics

Activity :-

- 1.) Plan to go to a place by a vehicle. Take readings of odometer and speedometer after every 5 minutes till you reach your destination. Record these observations in tabular form; plot graphs between distance-time and speed time. State whether this motion is uniform or non uniform.
- 2.) Obtain all equation of motion by graphical method .
- 3.) Explain Uniform Circular Motion .Is it an accelerated motion , explain .
- 4.) Aryan went from Delhi to Chandigarh on his bike. The bike's odometer reads 4200 km at the start and 4460 km at the end of the trip. If Aryan took 4 hours and

20 min to complete his journey, find the average speed and velocity in km/h and m/s.

5.) A bus travels at a speed of 90 km/h. Brakes are applied to produce a uniform acceleration of -0.5 m/s^2 . Please find out how far the train will go before it comes to rest.

Subject-Chemistry

Q1. Define the following terms:

- a) Diffusion
- b) Sublimation
- c) Latent heat of fusion.
- d) Latent heat of vaporisation
- e) Evaporation

Q2. Write various characteristics of particles of matter with one examples each.

Q3. Differentiate between the following:

- i). Solid, Liquid and Gas.
- ii). Latent heat of fusion and latent heat of vaporisation.
- iii). Evaporation and boiling.

Q4. What do you understand by interconvertibility of three states of matter. Explain with the help of a flow diagram.

Subject-Biology

The Fundamental Unit of Life

Assignment I

1. Who coined the term 'cell' in which year?
2. Name the scientists who proposed the cell theory.
3. Name the non living component of plant cell.
4. Who gave the idea that cell arise from pre existing cells?
5. What do you mean by sarcoplasm or hyaloplasm.
6. Differentiate between animal cell and plant cell.
7. How does prokaryotic cell differ from eukaryotic cell?
8. What is cell ? Why is cell called the structural and functional unit of life?
9. Differentiate between protoplasm and cytoplasm.
10. Draw a well labeled diagram of animal cell .
11. Draw a typical plant cell and show location of nucleus in it.
12. Draw the structure of any prokaryotic cell or bacteria.

History Holiday Homework

Class IX

A) Project Topic :- Evolution and the significance of the political symbols associated with the French Revolution.

- Explain the need for symbols during the French Revolution along with pictures.
- Impact of these symbols on common people.

B) Answer these questions:

- 1) Describe the division of the French society before the French Revolution.
- 2) Explain the events which led to the outbreak of French Revolution.
- 3) Write short notes on –
 - a) Charles Montesquieu
 - b) Jean Jacques Rousseau
 - c) Voltaire
 - d) John Locke

Geography Holiday Homework

Class IX

Q.1. Why India is referred to as a sub-continent?

Q.2. Why Ahmedabad in west and Kolkata in East can see noon sun exactly overhead twice a year but not Delhi in North?

Q.3. How geographical features of India has led to promote unity and homogeneity in the Indian society?

Holiday Homework Civics

Class- IX

1. What is referendum?
2. Who appointments the president of China?
3. How does Democracy allow us to correct our mistakes?
4. What is direct Democracy?
5. What is democracy ?

Economics Holiday Homework

Class IX

1. Distinguish between fixed capital and working capital
2. Differentiate physical capital and working capital.
3. Write the difference between economic activities and non economic activities.
4. What are the non farm activities?
5. What is the impact of electricity on irrigation?

Subject:-IT(402)

Section-Employability Skills

1. It is observed that there are three types of communication in which non-verbal communication sometimes more effective than verbal communication but we should take some precaution for effective communication when using non-verbal communication or demonstrating non-verbal communication by someone else. In this regard make a list of ten things of Dos and Don'ts while communicating non-verbal.(Hint:- Use Posture, Face Expression, Paralanguage, Touch, Gestures, Eye contact etc) Note: **In Classwork copy**)


Example:-

SI No	Dos (Right non-verbal communication)	Don'ts (Wrong non-verbal Communication)
1.	Making eye contact with the speaker	Scratching the Head

2. Make a list of ten(10) visual communication signs which are used widely/common to help persons to understand or communicate with others. (Write the place where you can see these visual communication sign boards and what is the purpose to use them at that place?). **(In Stick File**

Note:- Use proper colour combination to make the sign boards so that no confusion should be there.

Example:

SI No	Visual Communication Sign Board	Purpose	Place
1		Men at Work: To aware that work in progress	Road Side, Factory Side

2. Subject Skills (In IT Practical Copy)

1. It is very useful to know the use of open office writer. Write about yourself(School, Name, Class, Section, Roll Number, Roll No, Address) in

open office writer(already done in lab) and use,write any five formatting features (Bold/Italic/Underline/Bullet/Boarder/Font Size/Font Colour/Font Style/Alignment/Highlight text etc).

2. There are some rules to follow while typing on keyboard. Mention the rules according to fingers (both hands) and draw the same with matching key and finger colour(refer book).
3. Pangram means a sentence which includes all the characters of the alphabets like **“The quick brown fox jumps over the lazy dog.”** Now students you have to write all the fingers name pointing each letter used in this sentence.

Example:-

Key	Finger Name
T	Shift(little finger), Left Index Finger
h	Right Index Finger
e	Left Middle Finger