



DAV PUBLIC SCHOOL
Sec-3,Dhurwa-Ranchi 4
Affiliated to CBSE Delhi (10+2)
Session: 2026-27.



CLASS :Xth

HOLIDAY HOMEWORK

SUBJECT: ENGLISH

Copy work -

Chapter 1: A Letter to God

Short Answer Questions

- Q.1 Who was Lencho and where did he live?
- Q.2 Why was Lencho called "an ox of a man"?
- Q.3 What were Lencho's feelings when the hailstorm destroyed his crop?
- Q.4 Why did Lencho write a letter to God?
- Q.5 How much money did Lencho ask for?

Long Answer Questions

Describe Lencho's faith in God. Do you think his faith was justified?
Explain the irony in the story.

Value-Based Questions

Do you think blind faith can sometimes create misunderstandings? Explain.
What qualities of the postmaster impressed you the most?

Poem: Dust of Snow

Short Answer Questions

- Q.1 Who shook the dust of snow on the poet?
- Q.2 From which tree did the dust of snow fall?
- Q.3 How did the poet feel before the incident?
- Q.4 How did the dust of snow change the poet's mood?
- Q.5 What does the "dust of snow" symbolize?

Long Answer Questions

Explain how nature changed the poet's mood.
What is the importance of simple moments in life according to the poem?

Poem: Fire and Ice

Short Answer Questions

- Q.1 What are the two ways in which the world can end?
- Q.2 What does "fire" symbolize in the poem?
- Q.3 What does "ice" represent?
- Q.4 Which emotion does the poet associate with fire?
- Q.5 Why does the poet think ice is also dangerous?

Long Answer Questions

Explain the central idea of the poem.
Which emotion is more harmful – hatred or uncontrolled desire? Why?

Chapter: A Triumph of Surgery



Edit with WPS Office

Short Answer Questions

- Q.1 Who was Tricki?
- Q.2 Why was Mrs. Pumphrey worried about Tricki?
- Q.3 What advice did Dr. Herriot give to Mrs. Pumphrey?
- Q.4 Why did Dr. Herriot take Tricki to the surgery?
- Q.5 How did Tricki recover at the surgery?

Long Answer Questions

What message does the story give about overfeeding and care?
Explain the humorous elements in the story.

Value-Based Questions

What can we learn from Dr. Herriot's practical approach?

PROJECT WORK

English Project Topic:

"Nature and Human Emotions in Literature"

Instructions:

Use chart paper or A4 sheets.
Include pictures, drawings, and quotations.
Write neatly with headings and subheadings.

Project Content

- ★ Introduction to the authors:
 - G. L. Fuentes
 - Robert Frost
 - James Herriot

Explain:

Role of nature in poetry
Human emotions like faith, greed, love, and care
Importance of health and discipline

Draw or paste:

A snowy tree with a crow
Fire and ice symbols
Lencho writing a letter
Tricki with Dr. Herriot

Write a conclusion on:

"How literature teaches life lessons."

Creative Activity

Choose any one:

Write a diary entry as Lencho after receiving the money.
Write your own 8-line poem on nature.
Design a "Healthy Pet Care" poster inspired by Tricki's story



HOLIDAY HOMEWORK

SUBJECT:- HINDI

क्षितिज भाग 1:- प्रश्न 1 पाठ:- 1 सूरदास के पद

प्रश्न 2 पाठ:- तुलसीदास के पद

पाठ के प्रश्न उत्तर याद करो और लिखो।

कृतिका:- प्रश्न 3.पाठ 1 :- माता का अंचल

प्रश्न उत्तर याद करो और लिखो ।

व्याकरण:-

प्रश्न 4 .अलंकार की परिभाषा लिखो ।

रूपक अलंकार ,उपमा अलंकार ,उत्प्रेक्षा अलंकार ,मानवीकरण अलंकार और अतिशयोक्ति अलंकार की परिभाषा लिखकर 5-5 उदाहरण लिखो और याद करो।

प्रश्न 5 रचना की दृष्टि से वाक्य के भेद परिभाषा याद करो और लिखो।

प्रश्न 6 . दो औपचारिक तथा अनौपचारिक पत्र लिखो।

प्रश्न 7 अनुच्छेद लेखन:-परीक्षा से पहले मेरी मनोदशा ।

प्रश्न 8. प्रोजेक्ट झारखंड के साहित्यकार

(पांच साहित्यकारों पर आधारित होना चाहिए)



HOLIDAY HOMEWORK

SUBJECT - SANSKRIT

प्रश्न -1 अधोलिखितं प्रश्नानां उत्तराणि संस्कृत भाषायां लिखत।

क- अस्माकं पर्यावरणे किं किं दूषितम् अस्ति?

ख- अन्तिमे पद्यांशे कवेः का कामना अस्ति?

ग- लोके महतो भयात् कः मुच्यते?

घ- कुशलवयोः वंशस्य कर्ता कः?

ङ- जम्बुः किं वदन् व्याघ्रस्य उपहासम् करोति?

प्रश्न -2 "बुद्धिर्बलवती" पाठ का सारान्श हिंदी मे लिखो।

प्रश्न -3 समास विग्रह कुरुत।

कूपपतितः, धनप्राप्तः, कर्मकुशलः, शास्त्रपण्डितः, महापुरुषः

कृष्णसर्पः, घनश्यामः, त्रिभुवनं, रामलक्ष्मणौ, उपकृष्णम्

प्रश्न -4 प्रत्यय लिखो।

पाक्षिकः, धार्मिकः, गुणवान्, सेवनीयः, हसनीयः

खेलितव्यः, अर्चितव्य, शीलवान्, अग्निमत्, बुद्धिमत्

PROJECT WORK

प्रश्न -5 संस्कृत साहित्य के पांच कवियों का नाम ग्रन्थ और उनका परिचय संस्कृत मे लिखो।

प्रश्न -6 शुचिपर्यावरणम् पाठ का अन्वय लिखेत् और चित्र बनाए।

प्रश्न -7 (समय लेखनम्) घडी का चित्र बनाकर समय संस्कृत मे लिखो।

10:15

9:45

7:30

11:00



HOLIDAY HOMEWORK

SUBJECT: SCIENCE (BIOLOGY)

Q.I. Answer the following questions

1. How does amoeba engulf its food?
2. Why nutrition necessary for an organism?
3. What happens to the carbon dioxide which collect in human tissue?
4. How do plants obtain food? What are the two phases of photosynthesis?
5. What happens today rate of breathing during vigorous exercise and why?
6. What are the functions of liver and pancreas?
7. Mention the functions of bile.
8. What are the stomata and lenticel?
9. How is respiration different from breathing?
10. Define nutrition . What are the different mode of nutrition?
11. Why is diffusion insufficient to meet the oxygen requirements of multicellular organisms like humans ?
12. What criteria do we use to decide whether something is alive ?
13. What are outside raw materials used by an organism ?
14. What processes would you consider essential for maintaining life ?
15. Where do plants get each of the raw materials required for photosynthesis ?
16. What is the role of the acid in our stomach ?
17. What is the function of digestive enzymes ?
18. How is the small intestine designed to absorb digested food ?
19. What advantage over an aquatic organism does a terrestrial organism have with regard to obtaining oxygen for respiration ?
20. What are the different ways in which glucose is oxidised to provide energy in various organisms ?
21. How are the lungs designed in human beings to maximise the area for exchange of gases ?

Q.II. Draw the following diagram:

Human digestive system



Edit with WPS Office

Human respiratory system
Open and closed stomata

Q. III.. Project work

Make a project on natural resources

Prepare a brief write up on the topic -Natural resources

Types of natural resources - air, water and soil.

Biogeochemical cycle - oxygen, water, nitrogen, carbon dioxide cycle.

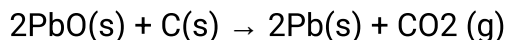
Global warming and ozone layer depletion.

.....

Subject: SCIENCE (CHEMISTRY)

Answer the following question.

1. Which of the statements about the reaction below are incorrect?



(a) Lead is getting reduced. (b) Carbon dioxide is getting oxidised.

(c) Carbon is getting oxidised. (d) Lead oxide is getting reduced.

(i) (a) and (b)

(ii) (a) and (c)

(iii) (a), (b) and (c)

(iv) all

2. $\text{Fe}_2\text{O}_3 + 2\text{Al} \rightarrow \text{Al}_2\text{O}_3 + 2\text{Fe}$

The above reaction is an example of a

(a) combination reaction.

(b) double displacement reaction.

(c) decomposition reaction.

(d) displacement reaction.

3. What happens when dilute hydrochloric acid is added to iron fillings? Tick the correct answer

(a) Hydrogen gas and iron chloride are produced.

(b) Chlorine gas and iron hydroxide are produced.

(c) No reaction takes place.

(d) Iron salt and water are produced.

4. What is a balanced chemical equation? Why should chemical equations be balanced?

5. Translate the following statements into chemical equations and then balance them.

(a) Hydrogen gas combines with nitrogen to form ammonia.

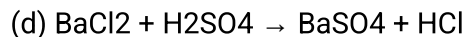
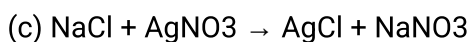
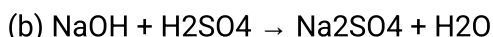
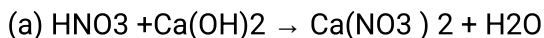
(b) Hydrogen sulphide gas burns in air to give water and sulphur dioxide.

(c) Barium chloride reacts with aluminium sulphate to give aluminium chloride and a precipitate of barium sulphate



(d) Potassium metal reacts with water to give potassium hydroxide and hydrogen gas.

6. Balance the following chemical equations.



7. Write the balanced chemical equations for the following reactions.

(a) Calcium hydroxide + Carbon dioxide \rightarrow Calcium carbonate + Water

(b) Zinc + Silver nitrate \rightarrow Zinc nitrate + Silver

(c) Aluminium + Copper chloride \rightarrow Aluminium chloride + Copper

(d) Barium chloride + Potassium sulphate \rightarrow Barium sulphate + Potassium chloride

8. Write the balanced chemical equation for the following and identify the type of reaction in each case.

(a) Potassium bromide(aq) + Barium iodide(aq) \rightarrow Potassium iodide(aq) + Barium bromide(s)

(b) Zinc carbonate(s) \rightarrow Zinc oxide(s) + Carbon dioxide(g)

(c) Hydrogen(g) + Chlorine(g) \rightarrow Hydrogen chloride(g)

(d) Magnesium(s) + Hydrochloric acid(aq) \rightarrow Magnesium chloride(aq) + Hydrogen(g)

9. What does one mean by exothermic and endothermic reactions? Give examples.

10. Why is respiration considered an exothermic reaction? Explain.

11. Why are decomposition reactions called the opposite of combination reactions? Write equations for these reactions.

12. Write one equation each for decomposition reactions where energy is supplied in the form of heat, light or electricity.

13. What is the difference between displacement and double displacement reactions? Write equations for these reactions.

14. In the refining of silver, the recovery of silver from silver nitrate solution involved displacement by

copper metal. Write down the reaction involved.

15. What do you mean by a precipitation reaction? Explain by giving examples.

16. Explain the following in terms of gain or loss of oxygen with two examples each.

(a) Oxidation

(b) Reduction

17. A shiny brown coloured element 'X' on heating in air becomes black in colour. Name the element 'X' and the black coloured compound formed.

18. Why do we apply paint on iron articles?



19. Oil and fat containing food items are flushed with nitrogen. Why?

20. Explain the following terms with one example each.

(a) Corrosion (b) Rancidity

SUBJECT: SCIENCE (PHYSICS)

Section A: Short Answer Questions

Q.1 Define Power of Accommodation. Why can a normal eye not see clearly objects placed closer than 25 cm?

Q 2 Explain the phenomenon of Tyndall Effect. Give two examples observed in daily life.

Q.3 Differentiate between Convex and Concave mirrors based on the type of images they form for various object positions.

Q 4 State the Laws of Refraction. What is the physical significance of the refractive index of a medium?

Q.5 A doctor prescribes a lens of power +1.5 D.

- Find the focal length of the lens.
- Is the prescribed lens diverging or converging?

Q.6 Why does the sun appear reddish early in the morning? Explain using the concept of scattering of light.

Section B: Long Answer Questions

Q.1 Human Eye Defects:

- Define Myopia and Hypermetropia.
- State two causes for each defect.
- With the help of neat ray diagrams, show the eye defect and its correction using suitable lenses.

Q 2 Refraction through a Prism:

- Draw a labeled ray diagram of refraction of light through a glass prism.
- Mark the angle of incidence (i), angle of refraction (r), angle of emergence (e), and the angle of deviation (D).



- Explain why white light disperses into seven colors when passed through a prism.

Q.3 Mirror and Lens Formula Applications:

- An object 5 cm in height is placed at a distance of 20 cm in front of a convex mirror of radius of curvature 30 cm. Find the position of the image, its nature, and size.
- Define magnification produced by a lens. If the magnification is -2, what does the negative sign indicate about the nature of the image?

PROJECT WORK

Chart paper project:

- ★ Ray diagram and mirror/ lens tables, create a detailed table showing all image formation cases for concave, convex mirror including diagrams on chart paper (from roll no. - 1 to 7)
- ★ Create a detailed table showing all image formation cases for concave convex lenses including diagrams on chart paper (from roll no - 8 to 16)
- ★ Draw a well - labelled diagram of the human eye and describe the function of different parts (from roll no - 17 to 26)

2. Read chapter light and human eye and prepare 30 HOTS and case based question which are frequently asked in board examination.

3. Prepare the practical file with experiments : to find the focal length of concave mirror and convex lens



HOLIDAY HOMEWORK

SUBJECT: SOCIAL SCIENCE (GEOGRAPHY)

1. ART INTEGRATED PROJECT WORK

*Topic: Soil and Cultural Diversity of India

* Decoration Idea:

Draw different soil colours of India with traditional art borders like:

Madhubani Art

Mandala Design

- Index
- Introduction
- Acknowledgment
- Certificate
- Meaning of Soil
- Types of Soil in India
- Soil and Crops Relationship
- Art Forms Related to Soil
- Traditional Pottery of India
- Soil Conservation Through Art
- State-wise Cultural Connection
- Creative Activities
- Conclusion
- Bibliography

2. Make a model of the Rain Water Harvesting System.

.....

SUBJECT: SOCIAL SCIENCE (HISTORY)

1. Why did nationalist tensions emerge in the Balkans?

2. How was the history of nationalism in Britain unlike the rest of Europe?



3. Who were Marianne and Germania? What was the importance of way in which they were portrayed?
4. Briefly trace the process of German unification.
5. What was the Zollverein? What were its wider implications?
6. Describe the role of Otto von Bismarck in the making of Germany.
7. Why did Frederic Sorrieu present Utopian vision in his prints in 1848? Explain one reason.
8. What were the major proposals of the Vienna Congress?
9. What were the various impact of French Revolution?
10. What area was known as the Balkans?
11. Explain any five reforms introduced by Napoleon in the regions under his control.

PROJECT WORK

Q Project Work Art - Integrated project on Rise of Nationalism in Europe. Project work must be created in folder file.

.....

SUBJECT: SOCIAL SCIENCE (CIVICS)

1. Sharing of power makes people more powerful. Give reasons.
 2. What are the different form of power sharing in modern democracies? Give an example of each of these.
 3. State one prudential reason and one moral reason for power sharing with an example from the Indian context.
 4. Describe the ethnic composition of Belgium.
 5. Describe the ethnic composition of Sri Lanka.
 6. Describe the way in which power can be shared among government at different levels.
 7. Give a comparative analysis between Belgium and India in the sphere of area.
 8. What were the Majoritarian measures taken in Sri Lanka to establish Sinhala supremacy?
 9. Differentiate between horizontal and vertical division of powers.
 10. Compare the situation of Belgium and Sri Lanka considering their location, size and cultural aspects.
- Q-11. Evaluate the power sharing system in India.



PROJECT WORK

Q-1. Art-Integrated project work on power sharing. *Project work must be created in a folder file.

.....

SUBJECT: SOCIAL SCIENCE (ECONOMICS)

1. Poverty in India. : -

1. Introduction of Poverty
2. Meaning of Poverty
3. Causes of Poverty
4. Types of Poverty
5. Poverty in Rural and Urban Areas
6. Government Schemes to Reduce Poverty
7. Conclusion

- **Graph/Chart Ideas : -**

Bar graph: Rural vs Urban Poverty

Pie chart: Causes of Poverty

Line graph: Poverty rate in different years.

- **write the question and answer:-**

Q.1 Why do different people have different developmental goals? Explain with suitable examples.

Q.2 "Income alone cannot be considered as the final measure of development." Explain the statement with examples.

Q.3 What are the different factors other than income that are important for development? Explain in detail.

Q.4 Why is the average income of a country considered an important criterion for development? What are its limitations?

Q 5 Explain the meaning of Human Development. How does it help in improving the quality of life of people?



HOLIDAY HOMEWORK

SUBJECT: COMPUTER

Part A- Copy work - Write and Learn

1. Explain the working of the Internet in detail.
2. Describe different types of web browsers.
3. Explain the advantages and disadvantages of the Internet.
4. What are search engines? Explain with examples.
5. Explain Internet safety and cyber security measures.

Part B- Project

Project 1 – Search on the Internet

Search the following topics on the Internet and write short notes about each:

1. Digital India
2. Cyber Safety
3. Artificial Intelligence

Project 2 - Topic:“Impact of Internet in Daily Life”

Instructions:

1. Prepare a chart or PPT on the topic.

Include:

- Uses of Internet in education
- Online shopping
- Digital payments
- Social media
- Advantages & disadvantages
- Safety tips

Add:

- Pictures related to Internet
- Diagrams of Internet connection
- Minimum 8–10 pages/slides



HOLIDAY HOMEWORK

SUBJECT:- MATHEMATICS

Chapter 1: Real Numbers

1. Use Euclid's division algorithm to find the HCF of 135 and 225.
2. Find the LCM and HCF of 96 and 404 by prime factorization.
3. Show that $\sqrt{5}$ is an irrational number.
4. Find the decimal expansion of $13/160$ and state whether it is terminating or non-terminating.
5. Express 0.375 as a rational number in simplest form.
6. Find the HCF of 867 and 255 using Euclid's algorithm.
7. Determine whether $7 \times 11 \times 13 \times 17 + 17$ is a composite number.
8. Find the greatest number that divides 245 and 1029 leaving remainder 5 in each case.
9. Write the prime factorization of 540.
10. Check whether 6^n can end with the digit 0 for any natural number n.

Chapter 2: Polynomials

1. Find the zeroes of the polynomial $x^2 - 5x + 6$.
2. Verify the relationship between zeroes and coefficients for $x^2 - 7x + 10$.
3. Find a quadratic polynomial whose zeroes are 3 and -2 .
4. Divide $x^3 - 3x^2 + 5x - 3$ by $x - 1$.
5. Find the remainder when $x^3 - 2x^2 + 4x - 5$ is divided by $x - 2$.
6. Check whether $x + 1$ is a factor of $x^3 + x^2 - x - 1$.
7. Find the zeroes of $2x^2 - 7x + 3$.
8. If one zero of the polynomial $x^2 + kx + 16$ is 4, find k.
9. Form a polynomial whose zeroes are -1 and 5.
10. Find the value of p if $x - 2$ is a factor of $x^3 - px^2 + x - 2$.

Chapter 3: Pair of Linear Equations in Two Variables

1. Solve: $2x + 3y = 13$ and $3x - 2y = 4$.
2. Find the value of x and y: $x + y = 7$ and $x - y = 1$.
3. Solve graphically: $y = 2x + 1$ and $y = x + 3$.
4. Find the point of intersection of $2x + y = 5$ and $x - y = 1$.



- Determine whether the equations $3x + 2y = 6$ and $6x + 4y = 12$ have a unique solution.
- Solve by substitution method: $x + 2y = 10$ and $3x - y = 5$.
- A train covers 360 km partly at 60 km/h and partly at 90 km/h in 5 hours. Find the distance covered at each speed.
- The sum of two numbers is 27 and their difference is 9. Find the numbers.
- Solve using elimination method: $4x + 5y = 6$ and $2x - 3y = 7$.
- Find the condition for a pair of linear equations to have infinitely many solutions.

Chapter 4: Quadratic Equations

- Solve $x^2 - 5x + 6 = 0$ by factorization.
- Find the roots of $2x^2 - 3x - 2 = 0$ using quadratic formula.
- Determine the nature of roots of $x^2 + 4x + 4 = 0$.
- Solve $x^2 - 8x + 15 = 0$.
- Find the discriminant of $3x^2 - 5x + 2 = 0$.
- A rectangle has area 60 cm^2 and length 7 cm more than breadth. Find its dimensions.
- Solve by completing the square: $x^2 + 6x - 7 = 0$.
- Find two consecutive positive integers whose product is 156.
- Solve: $5x^2 - 20x + 15 = 0$.
- The sum of squares of two consecutive natural numbers is 313. Find the numbers.

