

D.A.V. Public School, Behror
Holiday Homework (2025-26)

Class- X

HINDI

सभी कार्य स्वच्छ और सुंदर लेखन में करें।

1. निम्न पाठों के प्रश्नोत्तर कार्य करें ।

(संस्कृति , एक कहानी यह भी , आत्मकथ्य , नौबतखाने में इबादत)

2. नैतिकता बनाम आधुनिकता' विषय पर वाद-विवाद प्रतियोगिता के लिए पक्ष और विपक्ष में अपने विचार लिखिए

3. "भूतपूर्व भारत और आज का भारत' इस विषय पर आधारित अनुच्छेद । 100 शब्दों में

4. पर्यावरण की रक्षा विषय पर एक कविता की रचना कीजिए।

MATHEMATICS

1. If $217x+131y=913$ and $131x+227y=827$, then $x+y=$

- a)5 b)6 c)7 d)8

2. The number of polynomial having zeroes -3 and 5 is

- a)Only one b)exactly two
c)at most two d) Infinite many

3. Find Mean for the given data using assumed mean method and step deviation Method

Marks Below	0-10	10-20	20-30	30- 40	40-50	50-60
Number of Students	3	12	27	57	75	80

4. . Prove that $\sqrt{3}$ is irrational number ?

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

6. The product of two consecutive integers is 306 form a quadratic equation to find the integers, Also find numbers.

7. A train travels at a certain average speed for a distance 63 km and then travels a distance of 72 km at an averagespeed of 6 km/hr more than the original speed. If it takes 3 hours to complete total journey, what is its original average speed ?

8. Prove that $\sqrt{p} + \sqrt{q}$ is an irrational no, where p and q are prime numbers

9. The sum of two digit number and the number obtained by reversing the order of its digits is 165, if the digits differ by 3 find the numbers

10. John and 20 together have 45 marbles both of them lost five marbles each and product of the number of marbles did now have is 128 then how many marbles they had to start with if John has X marbles.?

11. Find the sum of exponents in prime factorization of 1440.

12. Prove that $\sqrt{5}$ is an irrational no.

13. Find HCF and LCM of the no.'s 45,75 and 105.

14. Find K if $X=5$ is the root of the equation $x^2+7kx-1=0$?

15. If the two positive integers a and b are written as $a=x^2y^2$ and $b=x^3y^2$; x ,y are prime numbers then Find HCF (a,b) ?

SCIENCE

CHEMISTRY

Q1. Explain the following in terms of gain or loss of oxygen with two examples of each.

Oxidation. (ii) Reduction.

Q2. Oil and fat containing food items are flushed with nitrogen. Why ?

Q3. A shiny brown coloured element X on heating in air becomes black in colour. Name the element X and the black coloured compound formed.

Q4. In the refining of silver, the recovery of silver from silver nitrate solution involved displacement by Copper metal. Write down the reaction involved.

Q5. Which of the following reactions are an endothermic reaction where decomposition also happens?

Respiration ,Heating of lead nitrate , Decomposition of organic matter , Electrolysis of acidified Water.

Q6.Silver chloride when kept in the open turns grey. Illustrate this with a balanced chemical equation.

Q7.A metal X acquires a green colour coating on its surface on exposure to air.

Identify the metal X and name the process involved in it.

Name and write chemical formula of the green coating formed.

Q8. Write the chemical equation when Iron sulphate is heated. Write observation also.

Q9. What happen when magnesium ribbon is burnt in air. Write the reaction. Write two precaution .

Q10. What happen when lead nitrate is heated. Write the reaction .

PHYSICS

1. Find the power of a concave lens of focal length 2 m.

2. Light enters from air to glass having refractive index 1.5. What is the speed of light in glass. The speed of light in vacuum is 3×10^8 m/s

3. Find the focal length of a convex mirror whose radius of curvature is 32 cm.

4.Take concave lens of focal length 15 cm forms an image at a distance of 10 cm from the lens. How far is the object placed from the lens.

5. An object 4 cm in size is placed 25 cm in front of a concave mirror of focal length 15 CM

(I) at what distance from the mirror should a screen be placed in order to play a sharp image

(II) find the size of the image

6. A convex lens forms a real and inverted image of a needle at a distance of 50 cm from it. Where is the needle placed in front of the convex lens if the image is equal to the size of the object? Also, find the power of the lens

7. An object is placed at a distance of 10 cm from a convex mirror of focal length 15 cm. Find the position and nature of the image

8. If angle of incidence for a light ray in air be 45 degree , and the angle of refraction in the glass be 30. Find the refractive index of glass w. r. t. Air.

BIOLOGY

Complete the assignment:-

1. Explain the process of photosynthesis. What are the raw materials and products involved?
2. Describe the various modes of nutrition in plants. Give examples of each.
3. What is transpiration? Explain its significance in plants.
4. Discuss the mechanism of breathing in humans and differentiate between respiration and Breathing.
5. Define the following terms: digestion, absorption, assimilation, and egestion. Explain their significance in the human digestive system.
6. Describe the structure and functions of the human respiratory system. Differentiate between aerobic and anaerobic respiration.
- 7 .Prepare a project on the topic "Effect of drugs on nervous system "

ENGLISH

Attempt all questions neatly. Use A4 sheets or a separate notebook. Submit after the holidays.

Literature-Based Tasks

1. Write a character sketch of Lencho from the story A Letter to God.
2. Summarize the poem Dust of Snow in your own words (in 100–120 words).
3. What is the message conveyed through the story Nelson Mandela: Long Walk to Freedom? Write in about 150 words.
4. Read the story The Thief's Story and write a diary entry from the perspective of the thief after he leaves Anil's house.
5. Choose any one poem from your textbook and illustrate it with a creative drawing. Add a short explanation.

Writing Skills

6. Write a formal letter to the Principal requesting extra classes in Science during the holidays.
7. Draft an article on "The Importance of Reading Habits Among Teenagers" in 150–200 words.
8. Write a short story (150–200 words) that begins with: "The lights went out, and suddenly I heard a scream..."
9. Prepare a speech on the topic "Say No to Plastic" to be delivered during the school morning assembly.
10. Write a report on a sports day event held in your school recently.

Grammar & Language Practice

11. Create a list of 20 new words from your textbook and use each in a meaningful sentence.
12. Convert 10 direct speech sentences from the textbook into indirect speech.
13. Write 10 active voice sentences and change them into passive voice.
14. Practice and write five paragraph cloze exercises (gap-filling) using grammar concepts.
15. Identify and correct the errors in 10 incorrect sentences .

SOCIAL SCIENCE

1. How did the civil disobedient movement came into force in various parts of the country? Explain with examples.
2. "The civil disobedient movement was different from the non cooperation movement ". Support the statement with examples.
3. Describe the main features of 'Poona Pact'.
4. What steps can be taken to control soil erosion in hilly areas?
5. How is the idea of Power Sharing emerged?
6. Explain different forms that have common arrangements of power Sharing.

COMPUTER APPLICATION

1. How internet works? Explain in details.
2. Write any five html program in your note book.
3. Draw or paste picture of any ten networking devices and explain its uses.
4. Define CSS in detail.