

DELHI PUBLIC SCHOOL, BHILAI

VACATION HOME WORK

CLASS- X

ENGLISH

Read the drama 'The Dear Departed' and answer the following:

- Q1. Write a brief summary of the drama, 'The Dear Departed' in about 150-200 words.
- Q2. What lessons can be learnt from the drama 'The Dear Departed'? Discuss the moral lessons conveyed through the characters and their actions.

(To be done in English Class Work Notebook)

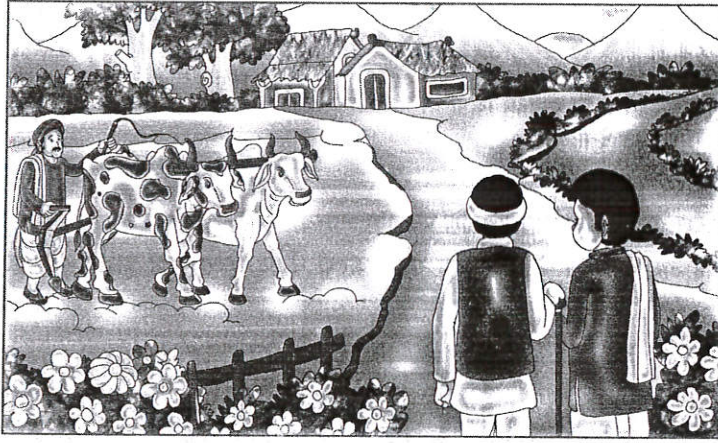
रक्षा दशमी ग्रीष्मावकाशगृहकार्य 2025-26

वर्णनात्मकाः प्रश्नाः

1. अधोदत्तचित्रस्य वर्णनं मञ्जूषायां प्रदत्तपदानां सहायतया पञ्चवाक्येषु कुरुत।

(नीचे दिए गए चित्र का वर्णन मञ्जूषा में दिए गए शब्दों की सहायता से पाँच वाक्यों में कीजिए।)

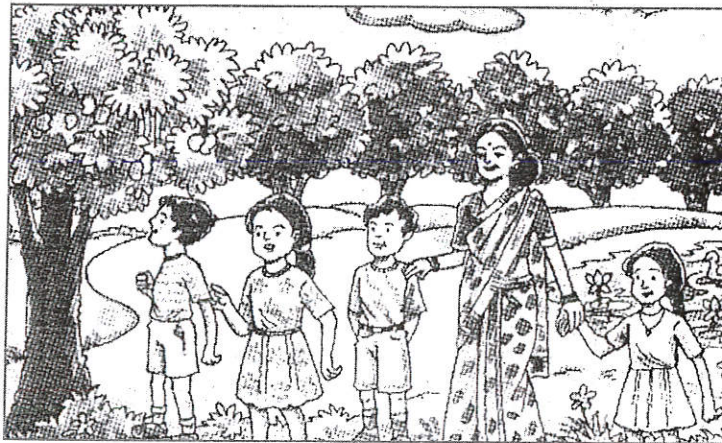
मञ्जूषा क्षेत्रे, जलम्, कुरुतः, सूर्यः, वृक्षाः, वृषभाभ्यां, पुष्पाणि, वार्तालापं, कृषकः, कृषकौ, हलेन, कुटीरः, सन्ति, विविधाः, कर्षति, उदेति, अत्र, परस्परं, इदं, अस्मिन्, चित्रम्, क्षेत्रस्य, अस्ति, कुरुत।



2. अधोदत्तचित्रस्य वर्णनं मञ्जूषायां प्रदत्तपदानां सहायतया पञ्चवाक्येषु कुरुत।

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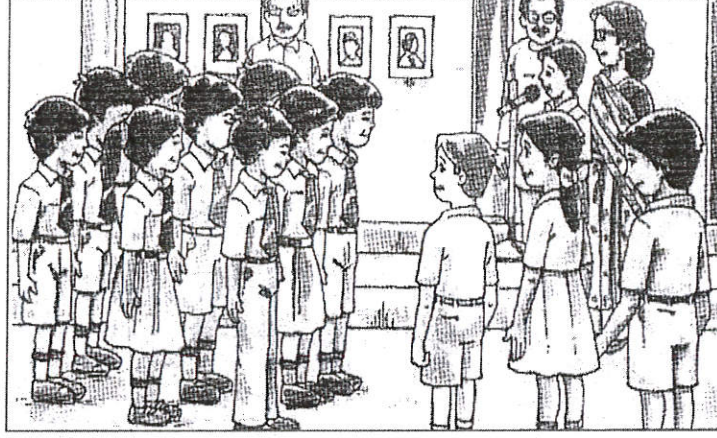
मञ्जूषा भ्रमणम्, वृक्षेषु, उद्यानस्य, एकस्य, बालकाः, फलानि, बालाः अनेके, सन्ति, पश्यन्ति, विकसन्ति, शिक्षिका, सह, तडागे, अपि, बालिकाः, अस्ति, इदम्, चित्रम्, तै, अत्र, पुष्पाणि, च, वर्तते, अनेकानि।



3. अधोदत्तचित्रस्य वर्णनं मञ्जूषायां प्रदत्तपदानां सहायतया पञ्चवाक्येषु कुरुत।

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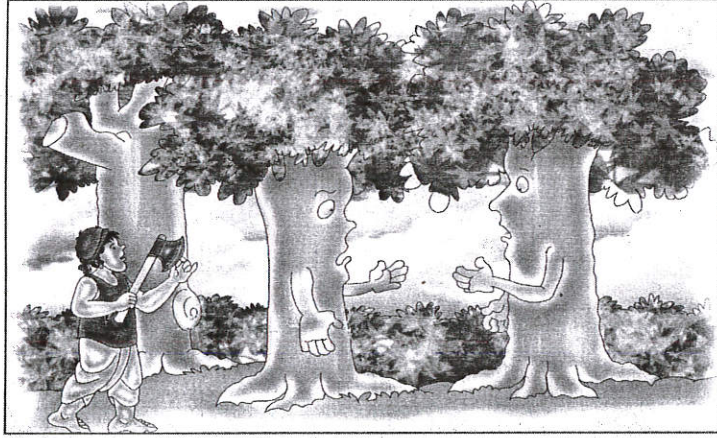
मञ्जूषा विद्यालयस्य, अनेकानि, ध्वनिविस्तारकयन्त्रेण, प्रधानाचार्यः, अपि, शिक्षकाः, छात्राः, चित्राणि, वदति, भित्तौ, बालः, सन्ति, तत्र, च, चित्रं, प्रार्थनासभायाः, सन्ति, तिष्ठति, इदं, अस्ति, अनेके, एकः।



4. अधोदत्तचित्रस्य वर्णनं मञ्जूषायां प्रदत्तपदानां सहायतया पञ्चवाक्येषु कुरुत।

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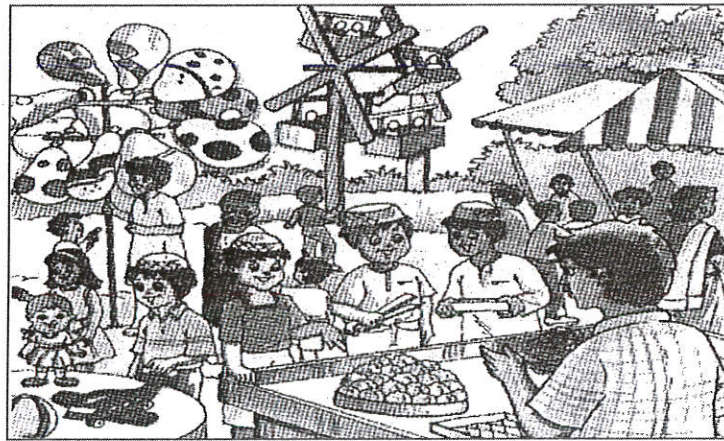
मञ्जूषा चित्रे, वृक्षच्छेदनम्, हरिताः, वृक्षाणाम्, दृश्यते, तक्षकः, हस्ते, अस्माकं, अस्ति, कुठारिका, अस्मिन्, वार्ता, एकः, कृते, भूमिः, तक्षकस्य, उन्नताः, प्राणवायुं, करोति, प्रदूषणम्, यच्छन्ति, वृक्षाः, छायां, शीतलां।



5. अधोदत्तचित्रस्य वर्णनं मञ्जूषायां प्रदत्तपदानां सहायतया पञ्चवाक्येषु कुरुत।

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मञ्जूषा वृक्षाः, वातपुटकं, सुन्दराणि, बालाः, एकः, दोला, मेलापकस्य, अपि, एकस्य, परिधानानि, प्रसीदन्ति, तत्र, सन्ति, इदम्, बाल, चित्रम् धृत्वा, क्रीणाति, अस्ति, एका, बालः, अपि।



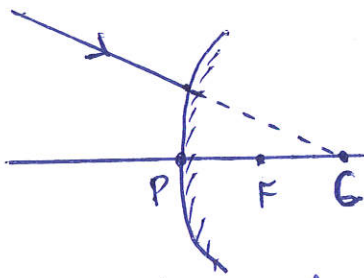
VACATION HOME WORK

CLASS - ~~X~~

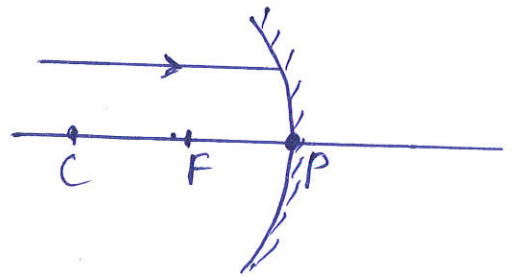
PHYSICS

1. Redraw the following ray diagrams and complete them! -

(a)



(b)



2. State two differences between real & virtual images.

3. When a paper is placed in front of concave mirror facing sun light, it starts burning. Explain the reason briefly.

4. Draw ray diagrams to show image formation in the following cases:-

(i) Object placed at infinity in front of convex ~~mirror~~ mirror.

(ii) Object placed at centre of curvature (C) of concave mirror.

5. State relationship between focal length & radius of curvature of spherical mirror.

Note: - Vacation work must be done in A-4 size sheets & if more sheets used, they must be stapled.

Class.10 Chemistry vacation homework :-

- 1) Differentiate between combination and decomposition reaction with one example each.
- 2) Convert the following word equations to chemical equations and balance them-
 - (a) Barium chloride and Aluminium sulphate react together to form barium sulphate and Aluminium chloride,
 - (b) Phosphorus reacts with oxygen to give phosphorus pent oxide,
 - (c) Iron reacts with steam to form tri iron tetraoxide and hydrogen gas,
 - (d) Zinc reacts with dilute hydrochloric acid to form zinc chloride and hydrogen gas,
 - (e) Sodium reacts with water to produce sodium hydroxide and hydrogen gas,
 - (f) Glucose reacts with oxygen to give carbon dioxide and water.
- 3) Why should we clean Magnesium ribbon before burning in air?
- 4) Write the chemical equation involved in the electrolytic decomposition of acidulated water. Why is the gas collected in one test tube double than the other?

(Do the vacation homework in an A-4 size paper and submit to your chemistry teacher).

VACATION HOMEWORK

BIOLOGY

CLASS – X

- Following practicals are to be written neatly, diagrams drawn in PRACTICAL NOTE BOOK.
(Refer to lab manual available for Science.)
 - Temporary mount of leaf peel to show stomatas under microscope.
 - Experimental set up to show that carbon dioxide is released during respiration.
 - To study permanent slides of a) Budding in yeast (b) Budding in hydra (c) Binary fission in amoeba.
 - To study different parts of dicot seed.
- Draw the following diagrams in C.W. notebook:
 - 1) Cross – section of a leaf
 - 2) Open & closed stomatal pore
 - 3) Human alimentary canal
 - 4) Human respiratory system

..... X

गोप्यतावकाश हेतु गृहकार्य

कक्षा - दसवीं

विषय - हिन्दी

1. विद्यालय 'दैनंदिनी (School Almanac) के पृष्ठ 18 पर मुद्रित वाद-विवाद के विषय* पर पक्ष अथवा विपक्ष में अपनी प्रस्तुति देने के लिए आलेख (script) तैयार करें। इसके लिए 'ए-4' साइज कागजों का इस्तेमाल करें। वाद-विवाद का विषय नीचे लिखा गया है।
2. आपकी कक्षा के व्हाट्सअप ग्रुप में भेजे जा रहे पीडीएफ के अनुसार अपना पोर्टफोलियो साफ और सुंदर लिखावट में तैयार करें। पोर्टफोलियो के प्रत्येक भाग/पृष्ठ पर निर्देशों का ध्यान रखते हुए काम करें।

* वाद-विवाद का विषय:-

“पारंपरिक शिक्षण-विधियों को कृत्रिम बुद्धिमत्ता संचालित शिक्षा के साथ संयोजित कर दिए जाने से शिक्षा की गुणवत्ता में उल्लेखनीय वृद्धि होगी।”

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Class X SUMMER VACATION HOMEWORK

- HISTORY AND CIVICS•
Map Pointing
[As per CBSE Syllabus]

(POLITICAL MAP : INDIA)

CONGRESS SESSIONS :

1. 1920 : Calcutta
[Kolkata]
2. 1920 : Nagpur
3. 1927 : Madras
[Chennai]

SATYAGRAHA MOVEMENTS :

4. Kheda
5. Champaran
6. Ahmedabad Mill Workers

IMPORTANT INCIDENTS/EVENTS

7. Jallianwala Bagh
8. Dandi March

VACATION HOMEWORK

ECONOMICS

CLASS – X

In a A₄ size chart paper write a short report on how access to education and health care contributes to overall development of a country.

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VACATION HOMEWORK

GEOGRAPHY

CLASS – X

- 1) On a political map of India locate and label all the states and union territories.
- 2) On a political map of India locate and label the major soil types of India using different colours.
- 3) Do a comparative study of the major soil types of India in the following tabular form in your Geography class work notebook.

NAME OF THE SOIL	CHARACTERISTICS (formation, texture, fertility etc.)	DISTRIBUTION (location)
Alluvial		
Black		
Red & Yellow		
Laterite		
Arid		
Forest & mount.		

..... X

VACATION HOMEWORK

CLASS – X

MATHEMATICS

A. Write briefly about fractals and draw two patterns of fractals in one – fourth chart sheet.

B. Solve the following questions:

- If $A = 2n + 13$, $B = n + 7$ where n is a natural number then find the H.C.F. & L.C.M of A & B.
- What is the L.C.M. & H.C.F. of smallest prime & smallest odd composite number?
- What are co-prime numbers? What is the H.C.F. of two co-prime numbers?
- Two numbers are in the ratio of 21 : 17. If their H.C.F. is 5, find the numbers.
- Find the L.C.M. & H.C.F. of 15, 18 & 45 by prime factorization method.
- Can numbers of the form 4^n end with digit 0 where n is any natural number?
- A circular field has a circumference of 360 km. Two cyclists A & B start together one having speed of 12km/hour & the other with a speed of 15 km/hour respectively. After how many hours will they meet again at the starting point?
- Find the largest number which divides 71 & 126 leaving remainder 6 & 9 respectively.
- A man plants 66 apple trees, 88 banana trees & 110 mango trees in equal rows. Also he wants to make distinct rows of trees. Find the minimum number of rows required of each type.
- Prove that $3\sqrt{2} + \frac{2}{3}$, $2\sqrt{3}$ & $(\sqrt{2} + \sqrt{3})$ are irrational numbers.

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DELHI PUBLIC SCHOOL, BHILAI

VACATION HOMEWORK

CLASS X

ARTIFICIAL INTELLIGENCE

Students are required to write the following python programs in their Particle file (one side rule)

Q1. Python program to find Largest number among three input numbers.

Q2. Python program to find factorial of a number provided by user.

Q3. Write a python program which takes three numbers as input from the user, finds their average and also the square root of the average value.

Q4. Create a program in python to find if a year is a leap year or not. A year is a leap year, if it is divisible by 4.

Q5. Write a program to display "Valid Voter" if the following condition is true: Age of the person should be ≥ 18 .
