Subject-English   Class- X

1. Trees are the lungs of the cities. You found that a large number of trees are being cut to widen the roads. Write a letter (100-120 words) to the editor of a local newspaper raising your voice against the cutting of trees. You are T K Prasanan/ Sanjitha, F 114 Karol Baug Delhi. (100-120 words)

2.   Choose the correct options to fill in the blanks to complete the narration.

• Teacher : Vinod, Why didn't you come to school yesterday?
Vinod : Sir, I have a toothache.
Teacher: Has the toothache gone now?
Vinod : I don't know sir. I left the tooth with the dentist.
 Teacher : What a funny joke it is!
The teacher asked Vinod[A]……………Vinod replied respectfully that [B] When the   teacher further asked   [C]…………..Vinod   replied he did not as he had left tooth with the dentist.

Choose the correct option.
A i. why he hasn't come to school the previous day.
ii.   why I don't come to school the previous day.
iii.   why he didn't he come to school the previous day.
iv.   why he hadn't come to school the previous day.

 B i. he had a toothache.
ii.   he has had a toothache.
iii.   he had had a toothache.
iv.   None of the above.

C. i. if the toothache had gone then.
ii.   that the toothache had gone then.
iii.   if the toothache has gone then.
iv.   if the toothache was gone then.

3. Answer the following questions in 100-120 words each.

 (i) "Love, trust and compassion transformed Hari Singh". Explain with reference to the story " The Thief's story.

(ii) Faith can move mountains. Do you think this statement is justified in Lencho's

case? Can we such examples in present time also? Discuss.

(iii) There are two kinds of conflicts in the story: a conflict between humans and nature

and a conflict between human themselves. Which characters do you think cater to

these conflicts? Illustrate these conflicts in your own words.

(iv) Write a character -sketch of Mrs.Pumphrey.

(v) Discuss how extreme behaviour can hasten the end of the world with respect to 'Fire and Ice'.

(vi) The poem 'Fire and Ice', carries with it very deep thematic ideas. Elaborate on these darkest traits of humanity

(vii) Simple moment proves to be very significant and saves rest of the day of poet from being wasted. Explain on the basis of the poem 'Dust of Snow'.

(viii) The poet was sad and depressed. But one comical incident lifts his spirits. He is full of joy and happiness again. Based on your reading of the poem, write a paragraph on the topic – Happiness is relative.

4. Read and learn the chapters that have been done in the class.

5. Write Portfolio in file

6. Read the chapter "The Proposal" and summarize it in 200 words.

7. Write and learn 200 verb forms.

केन्द्रीय विद्यालय सिलवासा

शरदकालीन अवकाश गृहकार्य

(2024-25)

कक्षा – 10वीं   विषय – हिंदी

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1. क्षितिज-2 एवं कृतिका-2 की पठित इकाइयों का सारांश लिखिए, प्रत्येक का सारांश कम-से-कम 150 शब्दों में लिखिए।

2. पठित अलंकारों की परिभाषा एवं प्रत्येक के पाँच-पाँच उदाहरण लिखिए।

3. 'योग और हमारा स्वास्थ्य' 'समय का महत्त्व', 'अनुशासन का महत्व', 'भारत की प्रमुख समस्याएँ', 'युद्ध की विभीषिकाएँ' / 'आधुनिक विश्व की उभरती हुई प्रमुख समस्या : युद्ध' इन विषयों पर अनुच्छेद लिखिए। (200 शब्द)।

4. छात्रवृत्ति के लिए प्रधानाचार्य को प्रार्थना पत्र लिखिए। वर्तमान में मनाए जा रहे दुर्गा पूजा एवं दशहरा का चित्रण करते हुए प्रधानमंत्री जी को पत्र लिखिए।

गृहकार्य से संबंधित दिशा-निर्देश :

 ➢ सभी विद्यार्थी गृह कार्य अपनी हिंदी की कार्य-पुस्तिका में लिखेंगे।
 ➢ गृह कार्य साफ-सुथरा होना चाहिए।
 ➢ विद्यार्थी गृह कार्य को लिखेंगे और याद भी करेंगे।

Subject-MATHS   Class- X

Autumn break maths HW...

SOLVE AGAIN MONTHLY April, August AND PERIODIC TEST1 and 2 PAPERS , along with CBSE SAMPLE PAPERS 2024 OF BOTH BASIC AND STANDARD....

केन्द्रीय विद्यालय   सिलवासा
(शरदकालीन अवकाश गृहकार्य)
संस्कृत –विषय 10th   2024–25 –कक्षा

1. विसर्ग संधि के दस उदाहरण लिखो ।
2. निम्न विषयों पर अनुच्छेद संस्कृत में लिखिए-

   1. पुस्तकालयः   2- मम विद्यालयः   3- उद्यानं

3. 4- संस्कृत के तीनों पुरुषों (प्रथम मध्यम उत्तम) पर आधारित एक चार्ट का निर्माण करो ।
4. 5- संस्कृत संख्या लिखिए और याद कीजिए ।।
5. 6- कम से कम तीन संस्कृत संवाद लिखिए ।।

Question(s)

1 A diagram of the digestive system is shown.
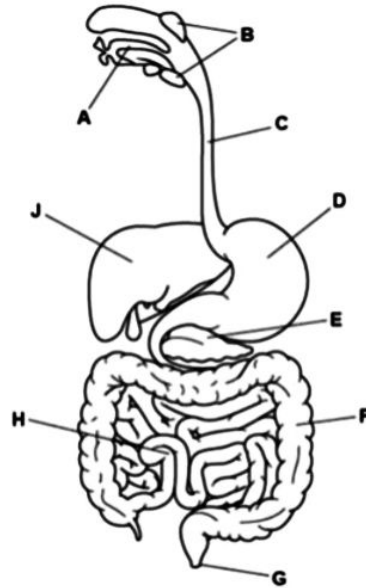
1(a) Identify the letters on the diagram where:

1(a)(i)	starch is digested _____ and _____	(2 marks)
1(a)(ii)	saliva is produced _____	(1 mark)
1(a)(iii)	the environment is acidic _____	(1 mark)
1(a)(iv)	water is re-absorbed _____	(1 mark)
1(a)(v)	egestion occurs _____	(1 mark)

1(b) State the name of organ:

- E
- J

(2 marks)

1(c) One requirement of a balanced diet is fibre. Fibre cannot be digested or absorbed.

1(c)(i) State **one** source of fibre and explain why it is necessary in a balanced diet. (2 marks)

1(c)(ii) State **four** other requirements of a balanced diet. (4 marks)

(Total marks 14)

Questions

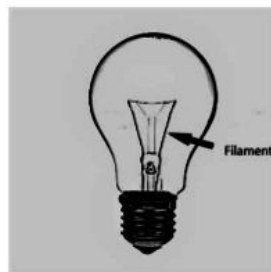1   **Fig. 1** shows the filament in a lamp.

Fig. 1

The filament is made from a very thin piece of metal.

When there is a current in the filament it glows brightly and becomes very hot.

1 (a)   Explain how the current causes the filament to become hot.

(4 marks)

1 (b)   Lamps in the home are connected in parallel.

Give **two** reasons why lamps are connected in parallel.

(2 marks)

1 (c)   The cost of electricity is Rs 4 per kilowatt-hour.

Calculate the cost of using a 100 W lamp for 8 hours.

(3 marks)

1 (d)   The coolant in a modern refrigerator is called HFC.

HFC does not damage the ozone layer. However, HFC is a powerful
         greenhouse gas.

Explain why HFC must **not** be released into the atmosphere.

(3 marks)

(Total marks 12)

Questions

1 **Fig. 1** shows the image formed by a lens when it is used as a magnifying glass.
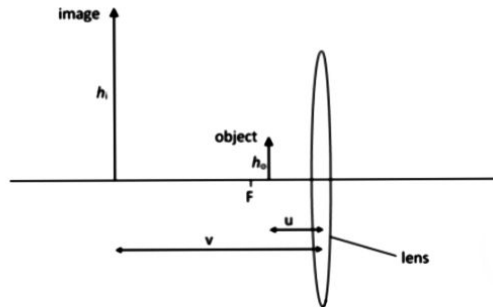
Fig. 1

The height of the image h_i is four times larger than the height of the object h_o.

1 (a) (i) State the magnification M of the image.

(1 mark)

(ii) Use your value of M to determine the ratio of the image distance v to the object distance u.

v = ...

(1 mark)

(iii) The focal length f of the lens is 20 cm.

Using your answer in **(a)(ii)** in the lens equation:

$$\frac{1}{f} = \frac{1}{v} - \frac{1}{u}$$

calculate the object distance u.

(3 marks)

(iv) Using your answer in **(a)(ii)** and **(a)(iii)** calculate v.

(1 mark)

1 (b) The power P of a lens is calculated using the equation:

$$P = \frac{1}{f}$$

Calculate the power of lens with a focal length $f = 20$ cm. State the unit.

(2 marks)

1 (c) **Fig. 2** shows the effect of long sightedness in an eye.
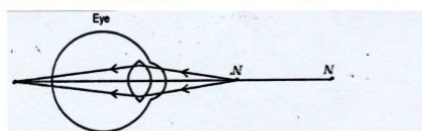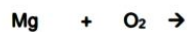

Fig. 2

Explain what causes long-sightedness and what can be done to correct it.

(4 marks)

Question(s)

1 The reaction between magnesium and oxygen produces magnesium oxide. Energy is released as heat and light during the reaction.

1(a) Complete and balance the symbol equation to show this reaction. Include the state symbols.

$$Mg \quad + \quad O_2 \quad \rightarrow$$ (3 marks)

1(b) The reaction between magnesium and oxygen can be described in different ways.

Explain why the reaction can be described as:

i. a combination reaction. (1 mark)

ii. an oxidation reaction. (1 mark)

iii. an exothermic reaction. (1 mark)

1(c) **Fig. 1** shows a piece of magnesium ribbon.

Fig. 1

1(c)(i) Suggest why the surface of the ribbon must be cleaned before the ribbon is used. (2 marks)

1(c)(ii) Describe **three** other precautions that must be taken when burning magnesium.

1. _____

2. _____

3. _____ (3 marks)

1(d) Magnesium oxide dissolves in water to produce an aqueous solution.

Suggest the pH of the solution _____

Explain your answer

(2 marks)

(Total marks 13)

Item purpose

The question assesses the students' understanding of Mendel's work on heredity and the laws of inheritance. It also tests their understanding about the mechanism of sex determination in humans and the phenomenon of co-dominance.

Question(s)

1   Mendel made observations of pea plants.

1 (a) Describe the observations Mendel made.

                               (2 marks)

1 (b) Mendel did not know about genes.
     What are genes made of?

                               (1 mark)

1 (c)(ii) Some plants have an allele for making the red pigment anthocyanin.

     There are two alleles:

     P^A - plant with allele for anthocyanin

     P^N - plant with no allele for anthocyanin

     What is an allele?
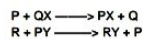
Metal	Iron (II) sulphate	Copper (II) Sulphate	Aluminium sulphate	Silver nitrate
A	No reaction	Displacement		
B	Displacement		No reaction	
C	No reaction	No reaction	No reaction	Displacement
D	No reaction	No reaction	No reaction	No reaction

Source information: (I) https://www.aplustopper.com/cbse-class-10-science-lab-manual-reactivity-series/

Question(s)

1   The equations of two reactions are shown.

P + QX ——> PX + Q
R + PY ——> RY + P


1(a)   Which row of the table shows the most reactive element and the least reactive element?

	Most reactive	Least reactive
A	P	R
B	Q	R
C	R	P
D	R	Q

(1 mark)

1(b)   In an investigation pieces of zinc are added to containers P, Q and R containing zinc sulphate, iron sulphate and copper sulphate.

83-8

In which containers will a colour change be observed?

Give a reason for your answer.

(2 marks)

1(c)   In an investigation, metals A, B, C and D are added to different solutions. The observations are shown in Table 1.

Metal	Solutions			
	Iron (II) sulphate	Copper (II) sulphate	Aluminium sulphate	Silver nitrate
A	No reaction	Displacement		
B	Displacement		No reaction	
C	No reaction	No reaction	No reaction	Displacement
D	No reaction	No reaction	No reaction	No reaction

Table 1

(i)   Explain what is observed when metal B is added to copper (II) sulphate solution.   (2 marks)

(ii)   Explain why silver nitrate must not be stored in a copper vessel.   (2 marks)

(iii)   Write the metals A, B, C and D in order of least reactive to most reactive.   (1 mark)

1(d)   The production of metals uses resources and has impacts on the environment.
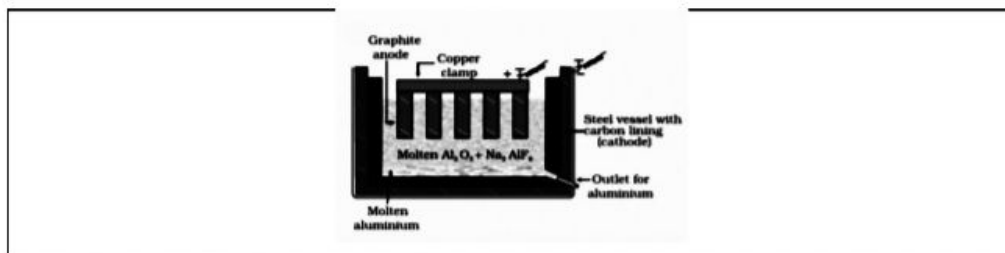
(4 marks)

Explain why metals are recycled.

(Total marks 11)

Item purpose

The question assesses the students' understanding of the process of extraction of aluminium from its ore, the chemical reactions which accompany this and the potential impact on the environment.

Source

Source information: NCERT Textbook

Question(s)

1 (a)   Pure aluminium is extracted from alumina by electrolysis as shown in Fig. 1.

Fig. 1

Write an ionic half-equation for the reaction at each electrode.

    A. ionic half-equation for the anode reaction:
    B. ionic half-equation for the cathode reaction:

(2 marks)

1 (b)   Alumina, Al_2O_3, is mixed with cryolite, Na_3AlF_6, before electrolysis.

1(b)(i)   Suggest why cryolite is added to alumina.   (1 mark)

1(b)(ii)   Explain why the anode must be replaced regularly.   (2 mark)

1 (c)   Explain two adverse effects on the environment caused by the mining   (4 marks)
and production of aluminium.

(Total marks 9)

Item purpose

The question assesses the learning and understanding of extraction of metals and about ionic compounds.

Question(s)

1   Pure aluminium is obtained by the electrolytic reduction of molten Alumina (Al_2O_3)

1 (a)(i)   Draw a diagram to show how the aluminium and oxide ions are formed.

< provide 8cm space for student diagram >

(5 marks)

1 (a)(ii)   State the charge on each ion.
        A. Aluminium ion
        B. Oxide ion

(2 marks)

1 (b)   Explain the process of electrolytic reduction of alumina.

Item purpose

The question assesses the learning and understanding of extraction of metals and about ionic compounds.

Question(s)

1   Pure aluminium is obtained by the electrolytic reduction of molten Alumina (Al_2O_3)

1 (a)(i) Draw a diagram to show how the aluminium and oxide ions are formed.

< provide 8cm space for student diagram >

(5 marks)

1 (a)(ii) State the charge on each ion.
    A. Aluminium ion
    B. Oxide ion

(2 marks)

1 (b) Explain the process of electrolytic reduction of alumina.

Item purpose

The question assesses the learning and understanding of preparation, properties and uses of salts.

Question(s)

1   Salts are formed in the reaction of an acid with a base.

1 (a)(i)   Write a word equation for the reaction that produces ammonium nitrate.

(2 marks)

1 (a)(ii)   State the nature of ammonium nitrate.

(1 marks)

1 (b)(i)   State the name and chemical formula of the hydrated salt that changes from blue to white when it is heated.

(1 marks)

1 (b)(ii)   Explain why this salt changes colour from blue to white when it is heated.

(1 marks)

1 (c)(i)   Suggest the pH of sodium hydroxide.

(1 marks)

1 (c)(ii)   What happens to the pH of sodium hydroxide when it is diluted?

(1 marks)

1 (c)(iii) What happens to the concentration of OH- ions when sodium hydroxide is diluted?

(1 marks)

1 (d)(i)   Sodium hydrogen carbonate ($NaHCO_3$) is heated strongly to produce sodium carbonate, water and carbon dioxide.

State the name of this type of reaction.

1 (d)(ii)   Construct a balanced symbol equation for this reaction.

(2 marks)

1 (d)(iii) Sodium carbonate is dissolved in water to produce sodium carbonate decahydrate.
Construct a balance symbol equation for this reaction.

(2 marks)

(Total marks 13)

Item purpose
The question assesses the learning and understanding of preparation, properties and uses of salts.

Question(s)

1   Salts are formed in the reaction of an acid with a base.

1 (a)(i)   Write a word equation for the reaction that produces ammonium nitrate.

(2 marks)

1 (a)(ii)   State the nature of ammonium nitrate.

(1 marks)

1 (b)(i)   State the name and chemical formula of the hydrated salt that changes from blue to white when it is heated.

(1 marks)

1 (b)(ii)   Explain why this salt changes colour from blue to white when it is heated.

(1 marks)

1 (c)(i)   Suggest the pH of sodium hydroxide.

(1 marks)

1 (c)(ii)   What happens to the pH of sodium hydroxide when it is diluted?

(1 marks)

1 (c)(iii)   What happens to the concentration of OH- ions when sodium hydroxide is diluted?

(1 marks)

1 (d)(i)   Sodium hydrogen carbonate ($NaHCO_3$) is heated strongly to produce sodium carbonate, water and carbon dioxide.

State the name of this type of reaction.

100 / 204

1
(d)(ii)   Construct a balanced symbol equation for this reaction.

(2 marks)

1 (d)(iii)   Sodium carbonate is dissolved in water to produce sodium carbonate decahydrate.
Construct a balance symbol equation for this reaction.

(2 marks)
(Total marks 13)

Item purpose

The question assesses the learning and understanding of extraction of metals and about ionic compounds.

Question(s)

1   Pure aluminium is obtained by the electrolytic reduction of molten Alumina (Al_2O_3)

1 (a)(i)   Draw a diagram to show how the aluminium and oxide ions are formed.

< provide 8cm space for student diagram >

(5 marks)

1 (a)(ii)   State the charge on each ion.
        A. Aluminium ion
        B. Oxide ion

(2 marks)

1 (b)   Explain the process of electrolytic reduction of alumina.

Subject-AI   Class- X

Autumn break AI HW...

SOLVE PERIODIC TEST-2 PAPER

Complete Particle file.

Holiday homework

Work Education

Autumn break

CLASS 10TH

1. MAKE A CHART ON RESISTANCE COLOUR CODING.
2. WRITE A SHORT NOTE ON OHM'S LAW AND IT'S USES IN DC CIRCUITS

Subject-AI   Class- X

Autumn break AI HW...

SOLVE PERIODIC TEST-2 PAPER

Complete Particle file.

KENDRIYA VIDYALAYA SILVASSA

AUTUMN BREAK HOMEWORK

CLASS 10TH

SOCIAL SCIENCE

WRITW THE ANSWERS TO THE FOLLOWING QUESTIONS IN YOUR NOTEBOOK

HISTORY

1. Who hosted the Vienna Congress in 1815? Analyse the main changes brought by the Vienna treaty.
2. Describe the process of unification of Germany ?
3. Why did Nationalist tensions emerged in the balkans ?
4. How did non cooperation movement start with participation of middle class people in the cities ? Explain its impact on the economic front.
5. Explain the role of women in the civil disobedience movement with examples.

GEOGRAPHY

1. Distinguish between the red and laterite soil stating 5 points of distinction.
2. Why do we need to conserve forest and wildlife ? explain any two steps taken up by the government to protect forest and wildlife resources.
3. Classify forests of India. give two characteristics of any two types of forests.
4. Explain the various problems associated with the construction of large dams. give example in support of your answer.
5. Describe the rooftop rainwater harvesting technique.

CIVICS
1. Compare the situation of Belgium and Sri Lanka considering their location size and cultural aspects.
2. How has idea of power sharing emerged ? Explain different forms that have common arrangements of power sharing.
3. Describe any three features of federal government .
4. Write any four characterstics of language policy in INDIA.
5. Explain the advantages of Decentralisation.
6. Women still lag behind men in India despite some improvements after Independence. Analyse.

ECONOMICS

1. Though the level of income is important., it is an inadequate measure of the level of develipment
2. Give five reasons for the rising importance of the tertiary sectors.
3. Describe the provisions of the National rural employment guarantee act 2005
4. Desribe all three sectors of Indiamn Economy.