

ADARSH PUBLIC SCHOOL

C-BLOCK, VIKAS PURI, NEW DELHI

HOLIDAYS' HOMEWORK

SESSION : 2021-22

CLASS : X

GENERAL INSTRUCTIONS

- All the questions are compulsory.
- The holiday's homework must be done in a very neat and presentable manner.
- The child will be assessed on the basis of presentation, neatness, completion of all the given questions and timely submission.
- Revise all the syllabus covered in the class.
- The homework of all the subjects is to be done in respective notebooks or as specified.

ENGLISH

Answer the following questions

1. (A) The way a crow
Shook down on me
The dust of snow
From a hemlock tree
Has given my heart
A change of mood
And saved some part
Of a day I had rued.
(a) What do the 'crow' and 'hemlock' symbolise?
(b) The mood of the poet changed because _____.
(c) Who shook the dust of snow?
(d) What did the tree have on it then?
(e) Name the poem and the poet.
 - (B) Some say the world will end in fire
Some say in ice.
From what I've tasted of desire
I hold with those who favour fire.
(a) What is the poet's opinion about the world?
(b) What is the contradictory opinion of public?
(c) How are ice and fire similar to each other though they have contradictory traits?
 - (C) But if it had to perish twice I think I know
enough of hate to say that for
destruction ice is also great and would suffice.
(a) What does 'it' refers to in the first line?
(b) What do you mean by 'perish'?
(c) What does ice stand for?
(d) What would be the cause of destruction?
2. Describe the character of Lencho in the light of his faith and attitude towards God and man.

3. Why did Lencho call the post office employees' a bunch of crook?
4. How can you say nature has a significant role in the lives of humans? (Dust Of Snow)
5. Give a brief character sketch of Mrs Pumphrey.
6. With a brief character sketch of Mr Herriot, the veterinary surgeon.
7. Read the poem 'Fire and Ice' by Robert Frost. Write the main idea of the poem. Can you find any similarity between the poem's message and today's time of Covid-19? If yes, how?
8. Public park is the heart of a residential area. Children play, elders go for a walk and even ladies do yoga and other exercises there. But unfortunately due to the novel virus Covid-19 these places are less brimming with children and people but there are few who are not sensing the need of the hour and breaking the rules of lockdown. Write a letter to the Editor of local daily for creating awareness among the masses regarding this issue.
9. Education has always been heralding the new and innovative ideas to connect children with their surroundings and the world in large but everything would have been at halt if we had not shaken hands with technology. Keeping in mind Write an article on the topic 'Digital learning proves to be a blessing in the times of Covid crises'.
10. Fill in the blanks with suitable word:
 What we call life is a very complex affair. It is not only simply eating, reproducing and dying. Every creature (a)_____ these. Man has to lead a highly complicated life. It is like (b)_____ through a maze and coming out. He is an economic being and a social animal. He has to earn, make a home, look after his people and attend (c) _____his obligations to the society and the government. So in order to be successful he has to develop certain qualities in him.
11. Rearrange the following words or phrases into meaningful sentences:
 - i) a) for many/on/relies/dogs/people have/generations
 - b) companionship/used/they/for hunting/have been/and
 - c) very/a dog's /are/ and ears/sensitive/nose
 - ii) a) inside/ grandeur/the palace hall/it was/all
 - b) interwoven/ pearls/were/ flower garlands/ sparkling/with
 - c) wooden stage/painted backcloth/the/ decorated/with a /was
 - iii) a) teeth/one/the/neglected/ of/body/the/are/of/most/parts
 - b) brushing/teeth/remove/50%/your/woes/can/almost/of/dental
 - c) good/and/oral/health/dental/hygiene/need/inculcated/to/at a nearly age/be
12. Read the chapter 'Footprints Without Feet' from your supplementary book and answer the following questions:
 Refer to the link : <https://youtu.be/nOE3zqhsKjo>
 - a) Who was making the footprints on the sand?
 - b) Why were the two boys in London surprised and fascinated?
 - c) Why did Griffin decide to slip into a big London store?
 - d) What did Griffin do in the shop of a theatrical company?
 - e) What was the explanation of 'mystery'?
13. Imagine you get a chance to interview the virus Covid 19. Write the conversation in the form of dialogues which took place between you and the virus.

हिंदी

I अनुच्छेद लेखन

1. खान पान की बदलती तस्वीर
2. प्रवासी मजदूरों के कष्ट
3. ऑनलाइन शिक्षा आज की आवश्यकता
4. शारीरिक शिक्षा और योग

II पत्र लेखन

1. समाज में बढ़ते अपराध को रोकने के लिए नागरिकों को जागरूक करने का आग्रह करते हुए किसी दैनिक समाचार - पत्र के संपादक को पत्र लिखिए।
2. अपने क्षेत्र में सार्वजनिक पुस्तकालय खुलवाने की आवश्यकता समझाते हुए दिल्ली के शिक्षा मंत्री के नाम एक पत्र लिखिए।
3. आपके क्षेत्र में कुछ अजनबी अनचाहे लोग घूम रहे हैं जिनसे लोगों में असुरक्षा और डर की भावना बढ़ रही है। पुलिस आयुक्त को पत्र लिखकर इसकी शिकायत कीजिए।
4. आप जिस कॉलोनी में रहते हैं वहां आपके आयु वर्ग वाले बच्चों के लिए खेलने की कोई व्यवस्था नहीं है। अपने लिए खेल के मैदान की व्यवस्था के लिए नगर निगम अथवा नगर पालिका अध्यक्ष को पत्र लिखिए।

III विज्ञापन लेखन

1. आपके संसदीय क्षेत्र में प्रति माह के अंतिम सप्ताह में स्वास्थ्य शिविर का आयोजन होने जा रहा है। इसे जनता तक पहुंचाने के लिए एक आकर्षक विज्ञापन तैयार कीजिए।
2. आप अपनी पुरानी कार बेचना चाहते हैं। इसके लिए एक आकर्षक विज्ञापन तैयार कीजिए।
3. कोविड-19 से बचाव के लिए आवश्यक उपायों की सूचना देते हुए स्वास्थ्य मंत्रालय, भारत सरकार की ओर से एक आकर्षक विज्ञापन तैयार कीजिए।
4. पुस्तक प्रदर्शनी में पाठकों को आमंत्रित करने के लिए एक आकर्षक विज्ञापन तैयार कीजिए।

IV कथा लेखन

1. कोविड-19 वैश्विक महामारी ने सारी दुनिया को झकझोर रखा है। इस वैश्विक महामारी ने जहां सारी दुनिया में निराशा का अंधकार फैला दिया है वहीं कुछ ऐसी घटनाएं भी घटी हैं जिन्होंने मनुष्य में मानवता का संचार किया है। ऐसी किसी घटना को आधार बनाकर सचित्र लघु कथा लिखिए एवं आकर्षक शीर्षक दीजिए।
2. पाठ्य पुस्तक संचयन में संकलित पाठ-1 **हरिहर काका** को पढ़ें और कहानी का सकारात्मक अंत देते हुए उसे पुनः अपने शब्दों में लिखें।

V मुहावरे

- पाठ्यपुस्तक स्पर्श में संकलित पाठ-1 **बड़े भाई साहब** पढ़िए और पाठ में आए मुहावरों का अर्थ बताते हुए उनका वाक्य प्रयोग करें।

VI अपठित गद्यांश

निम्नलिखित गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए।

गद्यांश 1.

शिवाजी का नाम प्रत्येक भारतीय जानता है। उन को महान बनाने का श्रेय समर्थ गुरु रामदास को है। समर्थ गुरु रामदास का जन्म 1608 इसवी में एक छोटे से ग्राम में हुआ। उनकी माता का नाम राणूबाई और पिता का नाम सूर्याजी पंत था। उनके बचपन का नाम नारायण था। प्रारंभ से ही विवाह नहीं करना चाहते थे। वे विवाह मंडप से ही भाग गए थे।

वे घर छोड़कर नासिक में एक गुफा में रहकर तप करने लगे। कहा जाता है कि एक पटवारी की स्त्री को आशीर्वाद देकर उसके पति को जिंदा कर देने की घटना से उनका यश चारों ओर फैल गया।

बाद में शिवाजी ने उन्हें अपना गुरु बनाया। शिवाजी समस्त कार्य उनकी आज्ञा से ही करते थे। शिवाजी ने एक बार भिक्षा मांगने पर सारा राज्य उनको दे दिया। बाद में गुरु के कहने पर शिवाजी मंत्री के रूप में राज्य का कार्य करने लगे। उनमें अनेक आश्चर्य में डालने वाली शक्तियां थीं। उन्होंने शिवाजी की वीरता की परीक्षा लेने के लिए शेरनी के दूध की मांग की थी। शिवाजी के साथ गुरु रामदास का नाम हमेशा लिया जाता है।

1. रामदास का यश चारों ओर क्यों फैल गया था?
2. शिवाजी के साथ रामदास का नाम भारतीय इतिहास में क्यों जुड़ा हुआ है?
3. शिवाजी ने रामदास को गुरु क्यों बनाया होगा?
4. शिवाजी को महान बनाने का श्रेय किसे दिया जाए गया?
5. गुरु राम दास का जन्म कब हुआ था?
6. गुरु राम दास के माता - पिता का क्या नाम था?
7. गद्यांश का उचित शीर्षक दीजिए।

गद्यांश 2

दुनिया का हर व्यक्ति अलग है। हर एक की अपनी अलग पहचान है। कोई व्यक्ति किसी दूसरे व्यक्ति - सा नहीं हो सकता। जब प्रकृति ने हीं, हमें अलग किया है, तो हम क्यों खुद को दूसरे जैसा बनाने का प्रयास करें। हम जैसे भी हैं, जो भी हैं, हम स्वयं के लिए सर्वश्रेष्ठ हैं। अपने व्यक्तित्व को निखारने के लिए हम जितना भी श्रम करें, वह इसलिए हो कि हम खुद को ही ऊपर उठा सकें, इसलिए नहीं कि हम उठकर दूसरे तक पहुंच जाएं। इन सब कामों को करने के लिए किसी विशेष श्रम की आवश्यकता नहीं है, बल्कि एक छोटी - सी कोशिश भी इसके लिए काफी होगी। ध्यान रहे कि दुनिया के महानतम लोगों में शुमार होने वाले व्यक्तियों में भी कुछ खास नहीं था, लेकिन हां, अगर कुछ खास था तो वह था उनका आत्मविश्वास और खुद की क्षमताओं पर उनका अटूट विश्वास, जिससे उन्होंने जमाने की हर ऊंचाई को छुआ। आप भी यकीनन उन ऊंचाइयों को छू सकते हैं, लेकिन उसके लिए आपको अपना रास्ता खुद बनाना होगा। आपका अंदाज आपकी पहचान है। यह यकीन दिल में रखे हुए आप अपनी मंजिल की तरफ बढ़ते जाएं, विश्वास रखिए आप दुनिया के सबसे अलग व्यक्तित्व हैं।

1. महान व्यक्तियों की सबसे बड़ी खासियत क्या थी?
2. दुनिया के हर व्यक्ति को एक दूसरे से क्यों अलग क्यों माना गया है ?
3. अपने व्यक्तित्व की पहचान के लिए व्यक्ति को क्या करना चाहिए।
4. कोई व्यक्ति किसी दूसरे व्यक्ति जैसा क्यों नहीं हो सकता ?
5. स्वयं के लिए सर्वश्रेष्ठ क्या है?
6. उपयुक्त गद्यांश का उचित शीर्षक दीजिए।

MATHEMATICS

1. If α and β are zeroes of the polynomial $2x^2 - 5x + 3$, then find the values of
(a) $\alpha + \beta - \alpha\beta$ (b) $(2\alpha + 2\beta)/3\alpha\beta$ (c) $(\alpha + \beta)^2 \alpha\beta$.
2. If $x^2 + x - 12$ divides the polynomial $p(x) = x^3 + ax^2 + bx - 84$ exactly, find the value of a and b.
3. Find all the zeroes of the polynomial $p(x) = x^4 - 5x^3 - 4x^2 + 16x - 8$ if two of its zeroes are $3 + \sqrt{5}$ and $3 - \sqrt{5}$.
4. If α , β and γ are the zeroes of the polynomial $p(x) = 6x^3 + 3x^2 - 5x + 1$, then find the value of $\alpha^{-1} + \beta^{-1} + \gamma^{-1}$.
5. If the sum of the zeroes of the polynomial $(k^2 - 14)x^2 - 2x - 12$ is 1, then find the value of k.
6. If one zero of the polynomial $3x^2 - 8x + 2k - 1$ is seven times the other, then find the product of its zeroes.
7. Find all the zeroes of the polynomial $p(x) = x^3 + 3x^2 - 2x - 6$ if two of its zeroes are $\sqrt{2}$ and $-\sqrt{2}$.
8. Find a quadratic polynomial whose zeroes are (
 - a) $2\sqrt{2}, -\sqrt{2}$
 - b) $\frac{3-\sqrt{5}}{5}, \frac{3+\sqrt{5}}{5}$
9. If the sum and product of the zeroes of the polynomial $ax^2 - 5x + c$ is equal to 10 each, find the value of a and c.
10. Check whether $x^2 + 3x + 1$ is a factor of $3x^4 + 5x^3 - 7x^2 + 2x + 2$ or not.
11. On dividing $5x^4 - 4x^3 + 3x^2 - 2x + 1$ by $x^2 + 2$, if quotient $ax^2 + bx + c$, find a, b and c.
12. On dividing $9x^4 - 4x^2 + 4$ by $3x^2 + x - 1$, the remainder is $ax - b$. Find the value of a and b.
13. On comparing the ratios $\frac{a_1}{a_2}, \frac{b_1}{b_2}$ and $\frac{c_1}{c_2}$, find out whether the following pairs of linear equations are consistent or inconsistent:
 - (a) $2x - 3y = 8, 4x - 7y = 10$
 - (b) $3x - 7y + 8 = 0, 9x - 21y = -24$
 - (c) $2x + 4y = 2, 5x + 10y - 5 = 0$
14. Solve the given system of linear equations: $2(ax - by) + (a + 4b) = 0$ and $2(bx + ay) + (b - 4a) = 0$

15. Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients (a) $6x^2-3-7x$ (b) $5x^2-4-8x$
16. Draw the graph of linear equations $x-y+1=0$ and $3x +2y -12=0$. Using this graph, find the value of x and y which satisfy both the equations.
17. Check whether the pair of linear equations: $x+3y =6$ and $2x-3y = 12$ are consistent. If so solve them graphically.
18. Solve the following pairs of linear equations by elimination method and substitution method:
(a) $3x-y=7, 2x+5y+1=0$ (b) $x/3 +y/4 = 4, (5x)/6-y/8=4$
19. The age of the father is twice the sum of ages of his two children. After 20 years, his age will be equal to the sum of the ages of his children. Find the age of the father.
20. **ART INTEGRATED ACTIVITY - Solve graphically: $x-y =1$ and $2x +y =8$. Also make an interesting ARTEFACT using area bounded by these lines and y axis.**
21. **ACTIVITY - Refer this link (<https://youtu.be/FTwFWF8aQWo>) to find geometrical meaning of the zeroes of a linear, quadratic and cubic polynomial.**

****THESE ACTIVITIES ARE TO BE DONE IN MATHS PRACTICAL FILE**

SCIENCE

1. Answer the following questions:
 - a. A sample of water weed was placed in water and exposed to sunlight. Bubbles of a gas are seen on the surface of the leaves.
 - (i) Name the gas evolved.
 - (ii) Name the process taking place.
 - (iii) Write a balanced equation of reaction taking place.
 - b. In the equations given below, state giving reasons, whether *substances* have been oxidised or reduced.
 - (i) $PbO + CO \rightarrow Pb + CO_2$
 - (ii) $H_2S + Cl_2 \rightarrow 2HCl + S$.
 - c. What are the different ways to make chemical equation more informative?
 - d. Name two salts that are used in black and white photography.
 - e. Balance the following chemical equation.
 - (i) $Fe(s) + H_2O(g) = Fe_3O_4 + H_2(g)$
 - (ii) $MnO_2 + HCl = MnCl_2 + Cl_2 + H_2O$
 - (iii) $HNO_3 + Ca(OH)_2 = Ca(NO_3)_2 + H_2O$

2. Activity: Refer to the virtual experiment as shown in the following link.

<https://www.youtube.com/watch?v=y04QQEc4QMA>

Answer the following questions based on your inferences:

- What do you observe when air is passed into lime water. Suggest suitable reasons for the observation. What type of reaction is it?
 - Why ferrous sulphate crystals in the test tube changes its colour on heating. What type of reaction is it?
 - What changes occur in colour of ferrous sulphate crystals when they are heated further for a longer time? Write the chemical equation for the change.
 - What are the products formed when sodium sulphate is reacted with barium chloride. Why it is called precipitate reaction?
 - Write an example of displacement reaction other than the one shown in the experiment.
3. Perform the following neutralization reactions, as studied in chapter by using the product available at home.

Material Required: Vinegar, Raw egg

- Take vinegar in a glass jar.
- Place a raw egg into the vinegar and leave it undisturbed for a 24 hours.
- During the course of this time, you will observe bubble formation taking place on the outer shell of the egg. This is because, vinegar (an acid) reacted with outer shell of egg (calcium carbonate) and slowly dissolves it.
- After 48 hours, remove the egg and rinse it off. The hard outer shell would be gone and the egg white and yolk will be left surrounded by a thin membrane.
- This will give you bouncy egg.

<https://www.youtube.com/watch?v=khgOTDvG-4A>

4. Read the chapter 'Life Processes' up to page number 100 covering the topic 'Nutrition'.

Refer to the E-resource <https://www.youtube.com/watch?v=X3TARootFfM>

Study Human Digestive System thoroughly using the video link and prepare a Power point presentation (5 slides).

5. **Art Integrated Project:** Read the Chapter 'Management of Natural Resources' and prepare a project report on the topic 'Natural Resources of Sikkim'. Explore different natural resources of the state, for example wildlife and forest resources; water and land resources, etc. Include different graphic organizers, graphs, diagrams and pictorial representation (in form of Sikkim art) to prepare the report.

The report is required to be prepared on activity sheets and maintained in a project file.

Note: *The project includes:-*

- Index
- Introduction
- Acknowledgement
- Content
- References
- Bibliography

Link for overview of the state: <https://www.youtube.com/watch?v=ydepwBIXVNU>

SOCIAL SCIENCE

1. Explain the interdependent relationship between nature, technology and institutions. Also make a diagram to represent the same.
2. Why was the Rio de Janeiro Earth Summit, 1993 held?
3. What were the aims of Agenda 21 to achieve global sustainable development?
4. Why are the arid soils found to be nonproductive?
5. Evaluate the steps which turned out to be milestones to establish majoritarianism in Sri Lanka.
6. Both Belgium and Sri-Lanka are democracies but they follow different systems of power sharing. Support the statement by giving these points of difference.
7. Explain the two main reasons why power sharing is important in democracy.
8. "Power is shared between different social groups." Comment on this statement with the help of an example.
9. Refer to page no.(6) of geography chapter 1 , Resource and Development and answer the following questions :
 - a. Compare the pie charts (fig 1.4) given for land use pattern and find out why the net sown area and the land under forests have changed from 1960-61 to 2014-15 very marginally.
 - b. Why the pattern of the net sown area varies greatly from one state to another? Give example.
 - c. What is the desired percentage of forest area in India according to the National Forest Policy 1952?
10. What is development? What are the two aspects of development?
11. Compare the aspirational goals of a boy from a rich urban family and a girl from a rich urban family?

12. “Money in your pocket cannot buy all the goods and service that you may need to live well.”
Is it true or not? Elucidate.

13. What are the development goals of landless rural labourers, prosperous farmers and farmers who depend only on rains?

14. Explain the meaning of HDI. Mention three components of measuring HDI.

15. What is BMI? How is it calculated? Find out the BMI of 2 adults in your family.

16. Cartographic Skill:

On the political map of India mark and colour the areas of different soil types found in India.

17. Make a creative and informative E-Project on

The topic consumer awareness with the help of chapter -6 of Economics covering the following information:

- a. Meaning of Consumer Rights.
- b. Different ways by which consumers are exploited by the producers and the sellers with the help of examples.
- c. Explain different Rights of consumer with the help of examples from day-to-day life.
- d. Mention the role of consumer courts.
- e. Mention the different certification marks and symbols that indicate the standard of different products along with their logos.

Refer this link : <https://www.slideshare.net/DivyaRajput6/consumer-rights-43625271>

18. Sikkim – Art Integrated Activity

Make a colourful activity on the location, soil types , natural vegetation & wildlife and organic farming practiced in Sikkim with the help of pictures, diagrams and maps. (On A4 sized coloured 15 to 20 sheets)

ART EDUCATION

- Painting (Jamini Roy): Recreate the painting of famous Indian painter Jamini Roy. Take a sheet of any size available. You can select one painting of your choice from his famous artworks.



- Waste Bottle Craft: Create planters with old oil cans or soft drink bottles

Link for your reference : https://youtu.be/B_3dOGROIEI



- Students are requested to complete their E-brochure, Art Integrated Activity on Sikkim.

WORK EDUCATION

- Make short video or power point presentation (10 Slides) on **Causes of Water Pollution and Techniques to Conserve Water.**
- Make a beautiful **Portfolio** which includes your personal details, achievements and creativity.