







SUMMER HOLIDAY HOME WORK


CLASS X (Session 2024-25)

<u>S.NO</u>	<u>SUBJECT</u>	<u>HOME WORK</u>	<u>SIGNATURE</u>
1	ENGLISH	<p>Q1. Write the theme of the following chapters:*(1 (150-200 words)</p> <p>i) Nelson Mandela: Long Walk To Freedom</p> <p>ii) A Triumph Of Surgery</p> <p>iii) A Letter to God</p> <p>Q2. Letter Writing</p> <p>i) You are Arihant Singh/Aparajita Singh, the Sports Secretary of Sunshine International School, New Delhi. You have received the parcel of sports articles ordered by you, some of which are defective and old. Write a letter of complaint to The Sales Head-Sports Articles, City Sports Complex, Meerut.</p> <p>ii) You are Kusum Rai/ Karan Rai , a resident of 459, Rajouri Garden, New Delhi. Write a letter to the Editor of the Times of India, New Delhi, drawing the attention of the concerned authorities to the deteriorating law and order in the city.</p>	 
2	HINDI	<p>1) छुट्टियों में आपने अपने माता-पिता का किन-किन कार्यों में सहयोग किया? लिखिए।</p> <p>2) दसवीं बोर्ड परीक्षा की तैयारी के लिए आपने किस प्रकार की और क्या-क्या योजना बनाई हैं? आप उन योजनाओं को कैसे पूर्ण करेंगे? लिखिए।</p> <p>3) "मेरे जीवन का लक्ष्य" विषय पर लगभग 100 शब्दों में अनुच्छेद लिखें। (अनुच्छेद लेखन में लगभग 10-15 मुहावरों का प्रयोग अवश्य करें।)</p> <p>4) 'बड़े भाई साहब' कहानी का सारांश अपने शब्दों में लिखिए।</p> <p>5) कबीर की साखियों का भावार्थ याद करें।</p>	
3	MATHS	<p>Extra questions from real numbers, polynomials, Pair linear equations in two variables, Quadratic equations. (sheet attached).</p>	

S.NO	SUBJECT	HOME WORK	SIGNATURE
4	SCIENCE	<p>Chemistry-Write all chemical equations five times each with word equations of Chapter 1 and 2 Biology -Draw all diagrams and figures of Chapter Life processes twice</p> <p>Physics- Draw all the ray diagrams of concave mirror and convex mirror and their image formation in different position.</p>	
5	SOCIAL SCIENCE	<p>To learn question answers of ch-1 history and chapter 1 civics .Sheet attached for geography and economics .</p>	
6	ARTIFICIAL INTELLIGENCE	<p>1. Follow the steps given in your book to install Anaconda, Jupyter Notebook and Create a virtual environment in your own computer/laptop. 2. complete all AI Tasks given in your text book on page no. 143,145,146 &147. 3. Analyse a problem near you and try to find its solution using AI. Create a 4W problem canvas chart for it in your notebook.</p>	


Coordinator


Vice Principal


Principal

Quina

"Holiday Homework"
Class - X
"Mathematics"

Q1. If 2 is a zero of a polynomial,
 $p(x) = ax^2 - 3(a-1)x - 1$, then find the value of a.

Q2. If 2 and 3 are zeros of polynomial
 $3x^2 - 2Kx + 2m$, then find the values of K and m.

Q3. If α & β are the zeros of the quadratic polynomial $f(x) = 3x^2 - 5x - 2$ then evaluate:

i) $\alpha + \beta + \alpha\beta$ ii) $\frac{1}{\alpha} + \frac{1}{\beta}$ iii) $\frac{\alpha}{\beta} - \frac{\beta}{\alpha}$

Q4. Find a quadratic polynomial, the sum and product of whose zeros are, respectively

i) 0 and $-\sqrt{2}$ ii) $\frac{3}{2}$ and $-\frac{1}{2}$ iii) $2\sqrt{5}$ and $-\sqrt{5}$

Q5. Find the zeros of the following quadratic polynomial and verify the relationship between the zeros and the coefficient of the polynomials.

i) $5x^2 - 8x - 8$ ii) $\sqrt{3}x^2 - 5x + \sqrt{3}$ iii) $a(x^2+1) - x(a^2+1)$

Q6. For which values of p & q, will the following pair of linear equations have infinite many solutions?

$4x + 5y = 2$, $(2p+7q)x + (p+8q)y = 2q-p+1$

Q7. Solve by substitution method: $1.4x + 3.9y = 6.4$
 $0.2x + 1.3y = 1.2$

Q8. Solve by Quadratic formula.

$\frac{14}{x+3} - 1 = \frac{5}{x+1}$; $x \neq -3, -1$

Q9. A rectangular field is 20m long and 14m wide. There is a path of equal width all around it, having an area of 111 sq.m. Find the width of the path.

Q10. Solve for x : $\frac{1}{a+b+x} = \frac{1}{a} + \frac{1}{b} + \frac{1}{x}$, where
 $a, b, x \neq 0$ and $a+b+x \neq 0$

Q11. Solve $x = \frac{1}{x - \frac{1}{x - \frac{1}{x - 2}}}$; $x \neq 2$.

Q12. Write the first four terms of an A.P. whose n^{th} term is $a_n = \frac{n^2}{n+2}$

Q13. For what value of K will $K+9$, $2K-1$ and $2K+7$ are consecutive terms of an A.P.

Q14. Given that $\text{HCF}(306, 657) = 9$, find $\text{LCM}(306, 657)$

Q15. Check whether 5^n can end with digit 0 for any natural number n .

Q16. Prove that $\sqrt{7}$ is an irrational

Q17. Find the hcf and lcm of 6, 72 and 120, using the prime factorisation method.

Q18. Explain why $4 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 + 5$ is composite number.

SUMMER HOLIDAY HOME WORK FOR CLASS-X

GEOGRAPHY

Read the chapter Forest & wildlife and answer the following
In your note book.

- i) What is biodiversity why is it important for human life.
- ii) Describe any three reasons why do we need to conserve forest and wildlife resources.
- iii) Describe five different steps taken by government for the protection of wildlife resources in India.
- iv) What is project tiger describe in brief.

v) Do the classification of forest on the basis of conservation?

vi) Describe in short

- a) Chipko movement
- b) Beej bachao andolan
- c) Joint Forest management program JFM.

Read the chapter water as resource and answer the questions given
below.

- vii) What is water scarcity? Describe any five different causes of water scarcity?
- viii) Describe any three different ways to solve the problem of water scarcity?
- ix) What is rainwater harvesting?

1. Mrs Aasha Onkar *Ashu*
2. Mr Shailendra S. *S. Shamp*

(PROJECT WORK FOR SUBJECT ENRICHMENT ACTIVITY COMPULSORY FOR ALL STUDENTS)

Students have to choose any one of the following given topics and collect information on it and make a project on it (Use A4 size papers for writing, pictures can also be pasted, Use of plastic covers, files strictly prohibited.) word limit -500 words

1. TOPIC - CONSUMER AWARENESS

OR

SOCIAL ISSUES

OR

SUSTAINABLE DEVELOPMENT

(HINT for Topic 1.-PLEASE TAKE THE HELP OF ECONOMICS NCERT BOOK LAST TOPIC CONSUMER RIGHTS MAKE A PROJECT DESCRIBING FOLLOWING INFORMATIONS RELATED TO CONSUMERS.

1. in what different manner consumers are exploited in market place.
2. what are the different rights we as consumer have.
3. what precaution can be taken so that we as consumers protect ourselves against any kind of exploitation.
4. what action can be taken by consumers to get justice against any kind of exploitation or injustice done in market.

HINT FOR topic 2. THERE ARE SEVERAL SOCIAL PROBLEMS IN OUR COUNTRY YOU CAN CHOOSE ANY AND DESCRIBE IT BY USING FOLLOWING POINTS

- I) Introduce the social problem by defining it.
- II) Different causes (Reasons) of problem.
- III) What action should be taken to solve the problem

HINT FOR Topic 3. As we have studied for countries economic development, resource development is essential, but in the name of development human is doing over exploitation of resources which is causing different environmental problems, fast depletion of resources etc.

Thus, keeping the above in our mind, we need to adopt the strategy of sustainable development. Explain sustainable development concept, How this can be applied in different areas.

* This is 5 marks activity for internal assessment (2024-25)

1. Mrs Aasha Onkar *Asw*
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