

KRISHNA INTERNATIONAL SCHOOL, ALIGARH
HOLIDAY HOMEWORK-2019-20
(SUMMER VACATION)
CLASS – X

S. No.	SUBJECT	HOLIDAY HOMEWORK
1	HINDI	<ol style="list-style-type: none"> क्या खेल और शिक्षा एक साथ चल सकते हैं? इस विषय पर तीन सौ शब्दों का निबंध लिखें। आजादी से लेकर आज तक के सभी प्रधानमंत्रियों के चित्र सहित उनके कार्य तथा उनकी राष्ट्र के प्रति दो उपलब्धियों का वर्णन करें। <p>नोट:- दिए गए कार्य को कक्षा कार्य पुस्तिका में कीजिए।</p>
2	ENGLISH	<ol style="list-style-type: none"> Write all the literary devices with examples used in the poems-Dust of Snow, Fire and Ice, A Tiger in the Zoo. Write the value of each lesson that you have learnt in class viz. A letter To God, Nelson Mandela, His First Flight, The Black Aeroplane. Write 5 articles on any topic using a quotation in each article related to topic.
3	SCIENCE	<p><u>PHYSICS</u></p> <ol style="list-style-type: none"> Explain the working of thermal power plant with the help of a well labeled diagram in your Physics Note book. Update your lab manual up to half yearly examination. <p><u>CHEMISTRY</u></p> <ol style="list-style-type: none"> Explain seven types of chemical reactions with three examples of each in your Chemistry Note book. Update your lab manual up to half yearly examination. <p><u>BIOLOGY</u></p> <ol style="list-style-type: none"> In your Biology Note book prepare a table showing the various diseases associated with the different endocrine glands present in human body along with their causes, effects & remedies. Update your lab manual up to half yearly examination.
4	SOCIAL SCIENCE	<ol style="list-style-type: none"> Prepare a project based on Ch. 'Popular struggles & movements' in Political Science, write in detail about any 2 movement that happened in past (One in India and other in rest of the world). Revise all the chapters of Social Science completed in class.
6	COMPUTER	<ol style="list-style-type: none"> Do "Unsolved Examination Questions" in your classwork copy given in book on page no. 73. Write a short note on mobile technology. Its importance, present and future trends. (write in your own words) Write the name of the following with respect to mobile technology. <ol style="list-style-type: none"> Any five mobile operating system Any five video conferencing softwares. Any two differences between 3G and 4G networks. Write any five examples of each of the following given below with their uses: <ol style="list-style-type: none"> Web portals Web servers Blogs Search Engines Web browsers <p>Note: Students are advised to focus on content in simple language rather than formatting and decoration.</p>

7	MATH	<p>Do the following question in your class work copy :</p> <p>1. Use Euclid's division algorithm to find the H.C.F. of 240 and 6552.</p> <p>Q2. Prove that $\sqrt{11}$ is irrational.</p> <p>Q3. Find the value of k so that the following system of equation has no solution $3x - y - 5 = 0 \text{ and } 6x - 2y - k = 0$</p> <p>Q4. Prove that $5 + 6\sqrt{3}$ is irrational.</p> <p>Q5. Use Euclid's division lemma to show that the cube of any positive integer is of the form $9m, 9m + 1$ or $9m + 8$.</p> <p>Q6. Draw the graphs of the equation $x - y + 1 = 0$ and $3x + 2y - 12 = 0$. Determine the coordinates of the vertices of the triangle formed by these lines and the x-axis and shade the triangular region.</p> <p>Q7. Find the zeroes of $t^2 - 15$ and verify the relationship between the zeroes and the coefficient.</p> <p>Q8. Solve $2x + 3y = 11$ and $2x - 4y = -24$ and hence find the value of 'm' for which $y = mx + 3$.</p> <p>Q9. If n is an odd positive integer, show that $(n^2 - 1)$ divisible by 8.</p> <p>Q10. If α and β are the zeroes of the polynomial $6y^2 - 7y + 2$, find a quadratic polynomial whose zeroes are $\frac{1}{\alpha}$ and $\frac{1}{\beta}$.</p> <p>Q11. Solve the following pair of the linear equation: $152x - 378y = -74$ $-378x + 152y = -604$</p> <p>Q12. Find the H.C.F. and L.C.M. of two numbers whose prime factorization are expressible as $2^3 \times 5^2 \times 7$ and $2^3 \times 3 \times 5$.</p> <p>Q13. If the H.C.F. of 65 and 117 is expressible in the form $65m - 117$, then find the value of m.</p> <p>Q14. If α, β are the zeroes of the polynomial $p(x) = 4x^2 + 3x + 7$, then find the value of $\frac{1}{\alpha} + \frac{1}{\beta}$.</p> <p>Q15. Divide $8x^4 + 14x^3 - 2x^2 + 7x - 8$ by $4x^2 + 3x - 2$.</p>
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