

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

S. No.	SUBJECT	HOLIDAY HOMEWORK
1	HINDI	<p>1. पता कीजिए कि कौन से साँप विषैले होते हैं? कोबरा, पदम, नाग साँपों के चित्र एकत्र कर उनके विषय में लिखें।</p> <p>2. आज़ादी में योगदान करने वाले समाचार पत्रों के नाम तथा उनके संपादकों का वर्णन चित्र सहित कीजिए।</p> <p>नोट:- दिए गए कार्य को कक्षा कार्य पुस्तिका में कीजिए।</p>
2	ENGLISH	<p>1. Read the chapter entitled 'The Sound of Music (part 1&2) of your book 'Beehive'.</p> <p>a) Write short summary of the story.</p> <p>b) Choose 10 interesting adjectives from the chapters and find their dictionary meaning.</p> <p>c) Make interesting sentences using any 10 words.</p> <p>2. Revise the poem entitled 'The Road Not Taken' and answer the following question.</p> <p>a) After you have made a choice, do you always think about what might have been , or do you accept the reality ?</p> <p>Note: Do the aforementioned assignments in your class work copy.</p> <p>3. a) Assignment no. 1 Determiners & Personal pronouns (pg no.110,111)</p> <p>b) Assignment no 1 Article (pg no. 70,71).</p> <p>Note: Do the aforementioned assignments in your Practice Paper Book.</p>
3	SCIENCE	<p><u>PHYSICS</u></p> <p>a) Derive three equations of motion by graphical method.</p> <p>b). Explain the working of speedometer & odometer with the help of a well labeled diagram.</p> <p>Note: Do the aforementioned assignments in your class work copy.</p> <p><u>CHEMISTRY</u></p> <p>a) In your Chemistry notebook make a table of first 20 elements of periodic table showing their atomic number ,atomic mass, symbol, valency & draw their electronic configuration.</p> <p>b) Update your lab manual up to half yearly examination.</p> <p><u>BIOLOGY</u></p> <p>a) In your Biology notebook make a comparative study of two types of cell divisions- mitosis & meiosis with the help of diagrams.</p> <p>b) Update your lab manual up to half yearly examination.</p>
4	SOCIAL SCIENCE	<p>a) Cyclone Fani, which has been classified as an extremely severe cyclone, hit India's eastern coast in the month of May 2019. Write a report of about 250-300 words in your Geography copy about the destruction made by this cyclone and describe how the Government of India and State Governments managed this disaster.</p> <p>b) Revise all the chapters of Social Science completed in class.</p>
5	COMPUTER	<p>1. Explain any 10 advanced memory devices with their maximum storage capacity prominently in use.</p> <p>2. Write the name of any 5 digital and analog devices widely used in day to day life and write their uses to support your answer.</p> <p>Note: Do all the questions in your class work copy only.</p>

6	MATH	<p>Do the following question in your class work copy :</p> <p>Q1. Prove that: $x^3 + y^3 + z^3 - 3xyz = \frac{1}{2}(x + y + z)[(x - y)^2 + (y - z)^2 + (z - x)^2]$</p> <p>Q2. State and prove remainder theorem and factor theorem.</p> <p>Q3. Express in the form $\frac{p}{q}$, $q \neq 0$, where p and q are integers (i) 5.347347347.....</p> <p>Q4. Draw a triangle ABC where vertices A, B and C are (3, 3), (-3, 0) and (3, -3) respectively.</p> <p>Q5. Represent $\sqrt{6}$ and $\sqrt{10}$ on number line.</p> <p>Q6. If both $(x - 2)$ and $(x - \frac{1}{2})$ are factors of $px^2 + 5x + r$, show that $p = r$.</p> <p>Q7. Factorise: $2x^4 - 6x^3 + 3x^2 + 3x - 2$.</p> <p>Q8. Express $\frac{1}{1 + \sqrt{2} - \sqrt{3}}$ with rational denominator.</p> <p>Q9. Find four solutions of each (i) $x - 5y = 0$ (ii) $3x + y = 11$</p> <p>Q10. If $x^4 + \frac{1}{x^4} = 47$, find the value of $x^3 + \frac{1}{x^3}$</p> <p>Q11. Find the value of p for which the polynomial $2x^4 + 3x^3 + 2px^2 + 3x + 6$ is divisible by $x + 2$.</p> <p>Q12. Draw the graph of $2x + y - 7 = 0$ and $x + 3y - 11 = 0$.</p> <p>Q13. Represent $\sqrt{10.6}$ on number line.</p> <p>Q14. Write all laws of exponent.</p> <p>Q15. Factorise: (i) $2x^2 + 13x + 20$ (ii) $27a^3 + b^3 + 27a^2b + 9ab^2$</p>
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