

HOLIDAY HOMEWORK
CLASS – X

❖ **ENGLISH:**

- **Draft your own Magazine**
- **Step 1:** Make a beautiful cover page and give your magazine a name.
- **Step 2:** Page 1 Write your own imaginary story (paste pictures also)
- **Page 2:** Joke , recipe of your favourite dish, crossword puzzle (one each)
- **Page 3:** Collect and paste any 2 English news headlines.
- **Page 4:** Write a movie review (word limit 100 words)
- **Page 5:** Myself (write about your strength and weakness) (word limit-100 words)
- **Page 6:** Write & Paste pictures of any one poet of the states (Puducherry and Uttarakhand)
- **NOTE:** Use A4 Ruled Sheets.

❖ **HINDI:**

- किसी भी शीर्षक पर एक स्वरचित कहानी अथवा कविता लिखकर एक आकर्षक परियोजना तैयार कीजिए।
- विज्ञापन-आपके बड़े भाई ने बेकरी की दुकान खोली है। उसके लिए एक आकर्षक विज्ञापन तैयार कीजिए। अथवा
- प्रदूषण से बचने के लिए जनहित जारी एक विज्ञापन पर्यावरण विभाग की ओर से तैयार कीजिए।
- कला एकीकृत गतिविधि-उत्तराखंड व पुडुचेरी के वाद्ययंत्रों व किन्हीं चार गायक/गायिकाओं के नाम लिखकर एक सचित्र परियोजना तैयार कीजिए।

❖ **MATHEMATICS:**

- **Art integrated Activity : (Do this activity in A4 Shets)**
 - About Uttarakhand and Puducherry.
 - Draw a pie chart of different languages spoken in Uttarakhand and Puducherry.
 - **Do the following activities in Maths Lab Manual:**
 - To verify the conditions of consistency/inconsistency for a pair of linear equations in two variables by graphical method.
 - To identify Arithmetic Progressions in some given list of numbers.
 - **Do the following practice work in a separate notebook.**
1. Find the LCM and HCF of 1296 and 5040 by prime factorisation method.
 2. The HCF of 408 and 1032 is expressible in the form $1032m - 2040$. Find the value of m. Also, find the LCM of 408 and 1032.
 3. The LCM of two numbers is 14 times their HCF. The sum of LCM and HCF is 600. If one number is 280, then find the other number.
 4. In a school, the duration of a period in junior section is 40 minutes and in senior section is 1 hour: If the first bell for each section ring at 9:00 a.m., when will the two bells ring together again?
 5. Prove that 16^n can never end with digit 0, where n is a natural number.
 6. Prove that $\frac{2 - \sqrt{3}}{5}$ is an irrational number if it is given that $\sqrt{3}$ is irrational.
 7. If one zero of the polynomial $x^2 - 3kx + 4k$ be twice the other, then find the value of k.

8. If α and β are the zeroes of the polynomial $ax^2 - 5x + c$ and $\alpha + \beta = \alpha\beta = 10$, then find the value of a and c .
9. If one zero of the polynomial $6x^2 + 37x - (k - 2)$ is reciprocal of the other, then find the value of k .
10. Find the quadratic polynomial whose sum of zeroes is 8 and their product is 12. Hence find zeroes of polynomial.
11. If α and β are zeroes of $x^2 + 7x + 12$, then find the value of $\frac{1}{\alpha} + \frac{1}{\beta} - 2\alpha\beta$.
12. Find the zeroes of the quadratic polynomial $5x^2 - 4 - 8x$ and verify the relationship between the zeroes and the coefficients of the polynomial.
13. If the pair of equations $3x - y + 8 = 0$ and $6x - ry + 16 = 0$ represent coincident lines, then find the value of r .
14. If the system of linear equations $2x + 3y = 7$ and $2ax + (a + b)y = 28$ have infinite number of solutions, then find the values of 'a' and 'b'.
15. If $217x + 131y = 913$ and $131x + 217y = 827$, then solve the equations for the values of x and y .
16. Seven times a two digit number is equal to four times the number obtained by reversing the order of the digits. If the difference of the digits is 3, determine the number.
17. If -5 is a root of the quadratic equation $2x^2 + px - 15 = 0$ and the quadratic equation $p(x^2 + x) + k = 0$ has equal roots, find the value of k .
18. Solve : $\frac{1}{a + b + x} = \frac{1}{a} + \frac{1}{b} + \frac{1}{x}$.
19. A journey of 192 km from a town A to town B takes 2 hours more by a ordinary passenger train than a super fast train. If the speed of the faster train is 16 km/h more, find the speeds of the faster and the passenger train.
20. Find the value of k for which the equation $x^2 + k(2x + k - 1) + 2 = 0$ has real and equal roots.
21. Three numbers in A.P. have the sum 30. What is its middle term.
22. The 7th term of an A.P. is 20 and its 13th term is 32. Find the A.P.
23. Find 10th term from end of the A.P. 4, 9, ..., 254.
24. How many natural numbers are there between 200 and 500, which are divisible by 7?
25. Which term of the progression 4, 9, 14, 19, ... is 109?

SCIENCE:

- From Life Processes chapter and Control and coordination draw all the diagrams in your class work notebook.
- Charts

❖ SOCIAL SCIENCE:

➤ CBSE Project:

- Pick any one and make a project on it.
 1. Social issues
 2. Sustainable Management
 3. Consumer Awareness

➤ Art Integrated Activity:

- Comparative account of Puducherry and Uttarakhand on
 1. Crops
 2. Cropping season
 3. Irrigation methods

