

SUMMER HOLIDAY HOMEWORK (2023-2024)

CLASS-X

Subject -English

Note-Do this project in file.

Do neat and clean work.

Roll no 1 to5- (Robert Frost, famous works and achievements)

Roll no 6 to 10(Milton, famous works and achievements)

Roll no 11 to 15(Shakespeare, famous works and achievements)

Roll no 16 to 20(William Wordsworth, famous works and achievements)

Roll no 17 to 23)W.B Yeats, famous work s and achievements)

**Submission date- 8 july 2023

विषय: हिंदी

1-गर्मी की छुट्टी पर 150 शब्द का एक निबंध लिखिए ।

2-प्रदूषण से बचने के लिए जनहित में जारी एक विज्ञापन पर्यावरण विभाग की ओर से 25 से 50 शब्दों में लिखिए।

3-मातृ दिवस के अवसर पर अपनी माता के लिए शुभकामना संदेश लिखिए।

4-पुस्तकालय में हिंदी के प्रसिद्ध लेखकों की पुस्तकें मंगवाने के लिए प्राचार्य को एक प्रार्थना -पत्र लगभग 80 से 100 शब्दों में लिखिए।

5-किसी एक विषय पर दिए गए संकेत बिंदु के आधार पर अनुच्छेद लिखिए।

1-प्रातः कालीन भ्रमण - *प्रकृति से संपर्क *शारीरिक व्यायाम *सेहत के लिए उपयोगी व लाभदायक।

2-आलस्य मनुष्य का सबसे बड़ा शत्रु - *आलस्य और मनुष्य जीवन *आलस्य के नुकसान *सफलता पाने के लिए आलस्य को त्यागना आवश्यक ।

6-भोलानाथ संकट के समय में अपने पिता के पास न जाकर माता के पास क्यों जाता है माता का आंचल पाठ के आधार पर स्पष्ट कीजिए।

7-साना साना हाथ जोड़ी यात्रा वृत्तांत में वर्णित ऐसी घटना का उल्लेख कीजिए जिसने आप को बहुत प्रभावित किया हो।

8-में क्यों लिखता हूं पाठ के आधार पर बताइए कि विज्ञान के दुरुपयोग से किन मानवीय मूल्यों की क्षति होती है इसके लिए हम क्या कर सकते हैं।

SUBJECT- MATHEMATICS

- 1) Find a quadratic polynomial whose sum and product of zeroes are $\sqrt{}$ and 3 respectively.
- 2) Find the zeroes of the polynomial $mx^2 + (m + n)x + n$.
- 3) If m and n are zeroes of the polynomial $3x^2 + 11x - 4$, find the value of $m + n$.
- 4) Find the sum and product of zeroes of $p(x) = 2(x^2 - 3) + x$.
- 5) Find a quadratic polynomial, the sum of whose zeroes is 4 and one zero is 5.
- 6) If α and β are the zeroes of $2x^2 + 5(x - 2)$, then find the product of α and β .
- 7) Find a quadratic polynomial, the sum and product of whose zeroes are 5 and 3 respectively.
- 8) Solve the following system of linear equations graphically: $2x - 3y - 17 = 0$; $4x + y - 13 = 0$. Shade the region bounded by the above lines and x-axis.
- 9) Solve the following system of linear equations graphically: $2x + 3y = 4$; $3x - y = -5$. Shade the region bounded by the above lines and y-axis.
- 10) The difference between two numbers is 14 and the difference between their squares is 448, then find the numbers.
- 11) Sum of two numbers is 50 and their difference is 10, then find the numbers.
- 12) The sum of the digits of a two digit number is 9. If 27 is added to it, the digits of the numbers get reversed. Find the number.
- 13) The sum of a two-digit number and the number formed by interchanging its digit is 110. If 10 is subtracted from the original number, the new number is 4 more than 5 times the sum of the digits of the original number. Find the original number.
- 14) If twice the son's age in years is added to the mother's age, the sum is 70 years. But if twice the mother's age is added to the son's age, the sum is 95 years. Find the age of the mother and her son.
- 15) Find the value of k for which the quadratic equation $(k - 12)x^2 + 2(k - 12)x + 2 = 0$ has two real equal roots..
- 16) Find the value of k for which the quadratic equation $k^2x^2 - 2(k - 1)x + 4 = 0$ has two real equal roots..
- 17) If the roots of the equation $(a - b)x^2 + (b - c)x + (c - a) = 0$ are equal, prove that $b + c = 2a$.
- 18) The sum of the squares of the two positive integers is 208. If the square of the larger number is 18 times the smaller number, find the numbers.
- 19) Two numbers differ by 3 and their product is 504. Find the numbers.
- 20) Seven years ago Varun's age was five times the square of Swati's age. Three years hence Swati's age will be two fifth of Varun's age. Find their present ages.
- 21) The product of Rohit's age five years ago with his age 9 years later is 15 in years. Find his present age.
- 22) The product of Archana's age five years ago with her age 8 years later is 30 in years. Find her present age.

- 23) The speed of a boat in still water is 8 km/hr. It can go 15 km upstream and 22 km downstream in 5 hours. Find the speed of the stream.
- 24) In a flight for 6000 km, an aircraft was slowed down due to bad weather. Its average speed for the trip was reduced by 400 km/hr and consequently time of flight increased by 30 minutes. Find the original duration of flight.

Mathematics

- 1 How many solutions does the pair of equations $y = 0$ and $y = -5$ have?
- 2 For what value of k , the pair of equations $4x - 3y = 9$, $2x + ky = 11$ has no solution?
- 3..Find whether the following pair of linear equations is consistent or inconsistent:
 $3x + 2y = 8$ $6x - 4y = 9$
- 4.For what value of k , the pair of equations $4x - 3y = 9$, $2x + ky = 11$ has no solution?
- 5..Check graphically whether the pair of equations $3x - 2y + 2 = 0$ and $3/2x - y + 3 = 0$, is consistent. Also find the coordinates of the points where the graphs of the equations meet the Y-axis.
- 6..Draw the graph of
 $2y = 4x - 6$; $2x = y + 3$ and determine whether this system of linear equations has a unique solution or not.
- 7Solve the following pair of linear equations for x and y :
 $141x + 93y = 189$;
 $93x + 141y = 45$
- 8..If α and β are the zeroes of the polynomial $ax^2 + bx + c$, find the value of $\alpha^2 + \beta^2$.
- 9..If the sum of the zeroes of the polynomial $p(x) = (k^2 - 14)x^2 - 2x - 12$ is 1, then find the value of k .
- 10..Find the condition that zeroes of polynomial $p(x) = ax^2 + bx + c$ are reciprocal of each other.

Subject: IT (402)

1. Make a project file on the following topic:

DBMS (Database Management System)

2. Read and learn:

Chapter 1 (Digital Documentation-Advance)

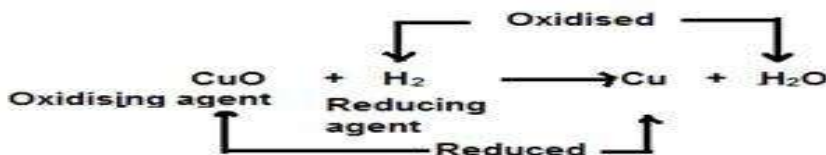
Science (chemistry)

1. Write and learn the anion or cation table given below and with the help of given table try to make ionic formula of 20 compounds and also write their chemical name.

Positive Ions (cations)		Negative Ions (anions)	
Name	Formula	Name	Formula
Hydrogen	H ⁺	Chloride	Cl ⁻
Sodium	Na ⁺	Bromide	Br ⁻
Silver	Ag ⁺	Fluoride	F ⁻
Potassium	K ⁺	Iodide	I ⁻
Lithium	Li ⁺	Hydroxide	OH ⁻
Ammonium	NH ₄ ⁺	Nitrate	NO ₃ ⁻
Barium	Ba ²⁺	Oxide	O ²⁻
Calcium	Ca ²⁺	Sulphide	S ²⁻
Copper(II)	Cu ²⁺	Sulphate	SO ₄ ²⁻
Magnesium	Mg ²⁺	Carbonate	CO ₃ ²⁻
Zinc	Zn ²⁺	Hydrogencarbonate	HCO ₃ ⁻
Lead	Pb ²⁺		
Iron(II)	Fe ²⁺		
Iron(III)	Fe ³⁺		
Aluminium	Al ³⁺		

2. Write the name of all types of chemical reactions and give 10 examples of each.

3. Write 10 examples of redox reactions. Mark the substance undergoing oxidation or reduction and also mark reducing and oxidizing agent in it. For example-



Physics

1. Perform activity 10.1, 10.2, 10.6, 11.2 and record your observations in notebook it will be discussed in class.
2. Write rules for tracing images formed by mirror and also draw ray diagrams.
3. Draw all the cases of image formation by concave and convex mirror .
4. Prepare a list of at least five uses of concave and convex mirrors and lenses.
5. Write at least five examples of reflection and refraction.
6. Make a systematic chart of all the important formulas and sign convention for mirrors.
7. Solve ncert examples and exercise of Light chapter.

Biology

Topic :- Find out the methods that were used for conservation and preservation of natural resources.

Some of the important clues are given to help you. Take the help of news paper magazine and internet and write a comprehensive report on the topic.

Use:- (A4 size paper ,hand written,1000 words it will be evaluated PA-2)

You can organize your topic through these points

- Wildlife resources
- Water resources
- Wetlands
- Forest resources
- Air quality

- **Waste management**

Project

Make a project file on the topics allotted to you that must contain 10 -15 pages.

(Index, acknowledgement, certificate, content, bibliography)

1. Roll No.1 to 5- Metals and their properties. (Chemical and physical)
2. Roll No. 6 to 10 – Acid bases and salt.
3. Roll No. 11 to 15 -light reflection and refraction.
4. Roll No. 16 to 20 –life processes .
5. Roll No. 20 to 23 – Mendel and his contribution (genetics)..

Note-1. Students have to do all the project work in A4 sheet by using black pen and blue pen.

2. You can use pencil colors to highlight important points.

3. Work should be neat and clean.

Subject: Social Science

Write the following questions in a separate rough notebook

- I. Describe the great economic hardship that prevailed in Europe during the 1830s.
- II. Explain any five social and administrative reforms introduced by Napoleon in regions under his control
- III. Highlight the reasons for the growth of nationalist tensions in the Balkan region before the First World War.
- IV. Write down the unification of Italy, Britain and Germany.
- V. What is the difference between Khaddar and Bhangar soil?
- VI. What is meant by conservation of resources? Mention any four steps taken at global level to conserve resources.
- VII. Give a brief description about the “Project Tiger”.
- VIII. How is the idea of power sharing emerged? Explain different forms that have common arrangements of power-sharing.
- IX. How has the world development report classified countries? What are the limitations of this report?
- x. How is it average person in Haryana has more income than the average person in Kerala but it lags behind in many other crucial areas? Explain.