

ARMY PUBLIC SCHOOL, TEZPUR

SUMMER HOLIDAY HOMEWORK

CLASS IX 2023-24

ENGLISH-

Q. Students will present a fact file about the following authors/Poets

1. Robert Frost
2. Ruskin Bond
3. Mulk Raj Anand

The file should comprise the following information about the author as per the given guidelines

- Author's life, early years, struggle
- His works , a brief analysis of his works
- The era he belonged to, contribution to English literature
- One of his best works/poems and a brief analysis of the same.

The file should be colourfully depicted. Paste pictures.

Q- 2. Students will submit write ups(poems/ articles/short stories/anecdotes/travelogues) for the school magazine on an A4 size sheet. Print outs will also be acceptable but it should not be copied from anywhere. Students will also retain a soft copy of the write up.

विषय - हिंदी

1. अपनी व्याकरण कॉपी पर निम्न विषयों के चित्र बनाकर या चिपका कर उनका वर्णन कीजिए-

क. बाढ़ का दृश्य

ख. रेलवे स्टेशन का दृश्य

ग.गांव केमेले का दृश्य

घ.पुस्तक मेले का दृश्य

ड.किसी त्योहार का दृश्य

2. 3 अनुच्छेद तथा 3 अनौपचारिक पत्र व्याकरण कॉपी में लिखिए।

3. स्कूल पत्रिका के लिए एक लेख लिखिए।

(Computerized A4 पेपर पर)

कक्षा में कराए गए सभी कार्यों को पूरा कीजिए तथा उसको याद भी कीजिए।

MATHS-

1. Assignment : (any one)

a. Draw the $\sqrt{17}$ in spiral method (use creativity).

b. Geometrically prove $(A + B)^2 = A^2 + B^2 + 2AB$

2. Worksheet of first 3 chapters.

3.

Worksheet 1

Multiple Choice Questions (MCQs) >>>

DIRECTIONS : This section contains multiple choice questions. Each question has 4 choices (a), (b), (c) and (d) out of which only one is correct.

- If the zeroes of the polynomial $f(x) = k^2x^2 - 17x + k + 2$, ($k > 0$) are reciprocal of each other than value of k is
 (a) 2 (b) -1
 (c) -2 (d) 1
- If one zero of the quadratic polynomial $2x^2 - 8x - m$ is $\frac{5}{2}$, then the other zero is
 (a) $\frac{2}{3}$ (b) $-\frac{2}{3}$
 (c) $\frac{3}{2}$ (d) $-\frac{15}{2}$
- Let $p(y) = y^4 - 3y^2 + 2y + 5$, then the remainder when $p(y)$ is divided by $(y - 1)$.
 (a) 2 (b) 3
 (c) -5 (d) 5
- If the polynomials $ax^3 + 4x^2 + 3x - 4$ and $x^3 - 4x + a$ leave same remainder when divided by $(x - 3)$, find the value of a .
 (a) -1 (b) 1
 (c) $\frac{1}{2}$ (d) $-\frac{1}{2}$
- Let $f(x) = x^2 - 27x + 196$. If $f(a) = a$, then what is the value of a .
 (a) 7 (b) 14
 (c) 21 (d) 6
- If $f(x) = 2x^3 - 6x + 4x - 5$ and $g(x) = 3x^2 - 9$, then the value of $f(1) + g(-2)$ is
 (a) -3 (b) -2
 (c) 3 (d) 2
- Factor of the polynomial $x^3 - 3x^2 - 10x + 24$ are:
 (a) $(x - 2)(x + 3)(x - 4)$
 (b) $(x + 2)(x + 3)(x + 4)$
 (c) $(x + 2)(x - 3)(x - 4)$
 (d) $(x - 2)(x - 3)(x - 4)$
- The zeroes of the polynomial are
 $p(x) = x^2 - 10x - 75$
 (a) 5, -15 (b) 5, 15
 (c) 15, -5 (d) -5, -15
- If a and b are zeroes of the polynomial $2t^2 - 4t + 3$, then the value of $a^2b + ab^2$ is :
 (a) $\frac{3}{4}$ (b) 2
 (c) 3 (d) 4
- The zeroes of the polynomial $x^2 - 3x - m(m + 3)$ are
 (a) $m, m + 3$ (b) $-m, m + 3$
 (c) $m, -(m + 3)$ (d) $-m, -(m + 3)$
- The value of x , for which the polynomials $x^2 - 1$ and $x^2 - 2x + 1$ vanish simultaneously, is
 (a) 2 (b) -2
 (c) -1 (d) 1
- If $x = 0.\overline{7}$, then $2x$ is
 (a) $1.\overline{4}$ (b) $1.\overline{5}$
 (c) $1.\overline{54}$ (d) $1.\overline{45}$

Multiple Choice Questions (MCQs) >>>>

DIRECTIONS : This section contains multiple choice questions. Each question has 4 choices (a), (b), (c) and (d) out of which only one is correct.

- For which value of p , will the lines represented by the following pair of linear equations be parallel
 $3x - y - 5 = 0$
 $6x - 2y - p = 0$
 - all real values except 10
 - 10
 - $5/2$
 - $1/2$
- For what values of k will the following pair of linear equations have infinitely many solutions?
 $kx + 3y - (k - 3) = 0$
 $12x + ky - k = 0$
 - $k = 4$
 - $k = 3$
 - $k = 6$
 - $k = 2$
- Which of the following is true if following pair of linear equations has unique solution?
 $3x - 2y = -8$
 $(2m - 5)x + 7y - 6 = 0$
 - $m = \frac{11}{4}$
 - $m = -\frac{11}{4}$
 - $m \neq -\frac{11}{4}$
 - $m \neq \frac{11}{4}$
- The perimeter of a rectangle is 40 cm. The ratio of its sides is 2 : 3. Find its length and breadth.
 - $l = 10$ cm, $b = 8$ cm
 - $l = 12$ cm, $b = 8$ cm
 - $l = 12$ m, $b = 8$ m
 - $l = 40$ m, $b = 30$ m
- Which of the following is the other name for a pair of linear equations in two variables?
 - Consistent equations
 - Simultaneous equations
 - Inconsistent equations
 - Dependent equations
- The difference between two numbers is 26 and one number is three times the other. Find them.
 - 39, 13
 - 41, 67
 - 96, 70
 - 52, 26
- Sanjay starts his job with a certain monthly salary and earns a fixed increment every year. If his salary was ₹ 4500 after four years of service and ₹ 5400 after 10 years, find his initial salary and annual increment.
 - 4000, 200
 - 3900, 150
 - 4500, 100
 - 3800, 250
- The pair of linear equations $x + 2y = 5$ and $3x + 12y = 10$ has
 - unique solution
 - no solution
 - more than two solutions
 - infinitely many solutions
- ₹ 49 was divided among 150 children. Each girl got 50 paise and each boy got 25 paise. How many boys were there?
 - 100
 - 102
 - 104
 - 105
- If the sum of the ages (in years) of a father and his son is 65 and twice the difference of their ages (in years) is 50, what is the age of the father?
 - 45 years
 - 40 years
 - 50 years
 - 55 years
- The value of k for which the system of linear equations $x + 2y = 3$, $5x + ky + 7 = 0$ is inconsistent is
 - $-\frac{14}{3}$
 - $\frac{2}{5}$
 - 5
 - 10

SCIENCE-

Physics: To solve worksheet based on Chapter-Motion

Chemistry: Perform Activity1.3, Activity1.4 and Activity1.11 at home and paste their pictures. Write observation and conclusion of each activity.

Biology: Perform the Osmosis experiment given in the exercise Q.No.9 and answer the questions given in textbook.

1. ***Note: Take pictures of the activities that you have performed at home and print it in a normal A4 size paper, paste it in your lab copy and write necessary observations. Pictures downloaded from internet will not be accepted***

SOCIAL SCIENCE-

History:

1. Write a detailed account on the 'Vishalandhra Movement'. Access the causes and the results of the movement. Paste pictures of movement and personalities associated with the movement. (In File in 800 words)
2. On an outline map of India locate and label 10 places where Nomadic Tribes are found. Name the tribes.
3. On an outline map of Europe mark and name two countries which formed the Allied powers and two countries which formed the Axis powers.
4. On an outline map of Europe, mark and name three countries annexed by Germany between 1936 and 1938.
5. On an outline map of Europe mark the countries- England, France, Germany Italy.

Political Science:

Instructions for the project: Collage and mosaic work with a variety of coloured papers and coloured pictures/photographs and magazines and newspapers.

Topics: (Any One)

- Portfolios of ministers of Andhra Pradesh and Assam.
- Timeline of Chief ministers of Andhra Pradesh and Assam
- Government schemes of Andhra Pradesh and Assam by the present government.

Economics:

1. Prepare a brief account in file on the 'Economic Policies' of the new Andhra Pradesh Government highlighting all three economic sectors. Also paste pictures and make charts.
2. Group wise PPT presentation on the following topics-
 - Group 1- Emergence of Green Revolution
 - Group 2- Changing relations in Economic sectors from 1960s to present.
 - Group 3- Poverty as a Challenge
 - Group 4- Food Distribution of India (PDS and MSP)
 - Group 5- Modern and Multiple farming methods Vs Traditional farming.
 - Group 6- Vicious and Virtuous cycle.

Geography:

1. On the outline map of world mark countries and seas after their names.
2. On the outline map of India mark all the physical features.
3. On an outline map of India mark the states of India.
4. On an outline map of India mark the mountain peaks of India.
5. On an outline map of India mark the Himalayan rivers and Peninsular rivers.
6. Write about the physiographic features of Andhra Pradesh. Paste pictures and maps.(political and physical map of Andhra Pradesh showing the physiographic features)

IT-

All the work you have to do in your note book copy

1. Write any ten MNC:
2. Write any five ISP:
3. Design the diagram of Computer System
4. Convert the following numbers(decimal) to binary
 - a. 61
 - b. 55
 - c. 45
 - d. 60