

**DAV PUBLIC SCHOOL KHERA KHURD / BUDHPUR**

**School Website : davpskherakurd.com , School Tel No. 01127844245 , 01127201930**

**SUMMER BREAK HOLIDAYS HOMEWORK 2019-2020**

**Class-X**

English

English Note : H.W. must be done in your English Activity file.

Writing Task- Do 3 questions each of gap-filling, error correction, omission and sentence transformation( jumbled words, narration and voice)

Use the given beginning and write the story in about 200-250 words.

Ramita was getting late for work. She grabbed her bag from the chair and rushed towards the door when the phone began to ring.....

Reading Task- Read the lesson "From the Diary of Anne Frank" of your book First Flight and write 5 -6 short answer questions along with their answers in 30-40 words each.

Speaking Task- Poem Recitation on any topic, duration- 3-5 minutes, date of recitation-July 5, 2019

Activity- Prepare a greeting card on Teachers' Day having a positive message.

**S.Science**

Make a Project

Topics

- 1- Challenges to Democracy(Roll no.1-10)
- 2- Forest and Wildlife Resources (Roll no.(11-20)
- 3- Water Resources(Roll no.21-30)
- 4- Consumer Awareness(Roll no.31-Above)

Following essentials are required to be fulfilled for its preparation and submission

- a- Project to be done in activity file
- b- Project to be handwritten 5- 6 pages
- c- Newspaper cuttings,maps,diagrams,illustrations are must
- d- Use of colourful pictures
- e- Creative use of materials

Science : Do all the questions given in NCERT Science Exemplar Book for the chapters taught to you in the class in separate Notebook .

Maths :

1. Do all the questions given in NCERT Maths Exemplar Book for the chapters taught to you in the class in Assignment Notebook .
2. Do all Assignment Problems in your Assignment Notebook

CLASS: X Ch-2 POLYNOMIALS SHEET 2 (SIDE 2)

MULTIPLE CHOICE QUESTIONS

Q1. The value of  $m$ , in order that  $x^2 - mx - 2$  is the quotient when  $x^2 + 3x^2$  is divided by  $x + 2$  is:  
 (A) (a) -1 (b) 1 (c) 0 (d) 2

Q2. If  $f(x) = 5x - 10$  is divided by  $x - \sqrt{2}$ , then the remainder will be:  
 (U) (a) a non-zero rational number (b) an irrational number  
 (B) (c) zero (d)  $f(\frac{1}{\sqrt{2}})$

Q3. Zeros of  $p(z) = z^2 - 27$  are:  
 (U) (a)  $2\sqrt{3}, 3\sqrt{3}$  (b)  $3\sqrt{3}, -3\sqrt{3}$  (c)  $\sqrt{3}, -\sqrt{3}$  (d)  $2\sqrt{2}, -2\sqrt{2}$

Q4. A polynomial of degree  $n$  has:  
 (K) (a) only '1' zero (b) exactly ' $n$ ' zeroes (c) at most ' $n$ ' zeroes  
 (d) more than ' $n$ ' zeroes.

Q5. Zeros of a polynomial can be determined graphically.  
 (K) Number of zeros of a polynomial is equal to number of points where the graph of polynomial:  
 (a) intersect  $y$ -axis (b) intersect  $x$ -axis  
 (c) intersect  $y$ -axis or (d) None of these.  
 intersect  $x$ -axis

ONE MARK QUESTIONS

Q6. What is the degree of zero polynomial and non-zero constant polynomial. (1)  
 (K) non-zero constant polynomial. (1)

Q7. Write the general equation of a quadratic polynomial where ' $\alpha$  and  $\beta$ ' are the two zeroes of the polynomial. (1)  
 (U) polynomial where ' $\alpha$  and  $\beta$ ' are the two zeroes of the polynomial. (1)

TWO MARKS QUESTIONS

Q8. Find the zeroes of  $\sqrt{3}x^2 + 10x + 7\sqrt{3}$  (2)  
 (U) Find the zeroes of  $\sqrt{3}x^2 + 10x + 7\sqrt{3}$  (2)

Q9. If the product of the zeroes of the polynomial  $ax^2 - 6x - 6$  is 4, then find the value of  $a$ . Also find the sum of zeroes of the polynomial. (2)  
 (A)  $ax^2 - 6x - 6$  is 4, then find the value of  $a$ . Also find the sum of zeroes of the polynomial. (2)

Q10. Find the quadratic polynomial whose zeroes are ' $-9$ ' and ' $-\frac{1}{4}$ '. (2)  
 (U) ' $-9$ ' and ' $-\frac{1}{4}$ '. (2)

Q11. Find the zeroes of a quadratic polynomial  
(S)  $5x^2 - 4 - 8x$  and verify the relationship between the zeroes and coefficients of polynomial. (2)

Q12. Obtain all other zeroes of polynomial:

(A) " $2x^3 - 4x - x^2 + 2$ " if two of its zeroes are " $\sqrt{2}$  and  $-\sqrt{2}$ ". (2)

Q13. Find the quadratic polynomial, sum of whose

(U) zeroes is 8 and their product is 12. Hence find the zeroes of polynomial. (2).

### THREE MARKS QUESTIONS:

Q14. If  $\alpha$  and  $\beta$  are the zeroes of the polynomial:

(A)  $3x^2 + 5x - 2$ , then form a quadratic equation whose zeroes are  $2\alpha$  and  $2\beta$ . (3)

Q15. If  $\alpha$  and  $\beta$  are the zeroes of the quadratic

(A) polynomial  $2x^2 + 5x + k$ , find the value of  $k$  such that  $(\alpha + \beta)^2 - \alpha\beta = 24$ . (3).

Q16. If  $\alpha$  and  $\beta$  are two zeroes of polynomial:

(A)  $2x^2 - 5x + 7$ , find the quadratic polynomial whose zeroes are:  $2\alpha + 3\beta$  and  $3\alpha + 2\beta$ .

Q17. Given that the zeroes of the cubic polynomial  
(S)  $x^3 - 6x^2 + 3x + 10$  are of the form  $a, a+b, a+2b$  for some real numbers  $a, b$ . Find the values of  $a$  and  $b$  as well as zeroes of given polynomial.

Q18. If  $(x+a)$  is a factor of the polynomials:

(A)  $x^2 + px + q$  and  $x^2 + mx + n$ , prove that  $a = \frac{n-q}{m-p}$ .

Q19. If the zeroes of polynomial  $p(x) = x^3 - 12x^2 + 44x + k$   
(S) are in A.P., find the value of  $k$ .

Q20. If the polynomial  $6x^4 + 8x^3 + 17x^2 + 21x + 7$  is divided by another polynomial  $3x^2 + 4x + 1$ , the remainder comes out to be  $ax + b$ , find the values of  $a$  and  $b$ .

Q21. Obtain all other zeroes of the polynomial  
(A)  $x^4 - 3x^3 - x^2 + 9x - 6$ , if two of its zeroes are  $\sqrt{3}$  and  $-\sqrt{3}$ .

Q22. On dividing the polynomial  $4x^4 - 5x^3 - 39x^2 - 46x - 2$   
(U) by the polynomial  $g(x)$ , the quotient and the remainder were  $x^2 - 3x - 5$  and  $-5x + 8$  resp. Find  $g(x)$ .

Q23. Given that  $x - \sqrt{5}$  is factor of the polynomial  
(A)  $x^3 - 3\sqrt{5}x^2 - 5x + 15\sqrt{5}$ , find all the zeroes of polynomial.

Q24. If one zero of the polynomial  $(k+1)x^2 - 5x + 5$  is  
(S) multiplicative inverse of the other, then find the zeroes of  $Kx^2 - 3Kx + 9$  where  $K$  is constant.

Q25. Find  $K$  so that  $x^2 + 2x + K$  is a factor of  
(A)  $2x^4 + x^3 - 14x^2 + 5x + 6$ . Also find all the zeroes of two polynomials.

Q26. Find the polynomial of least degree which  
(A) should be subtracted from the polynomial  $x^4 + 2x^3 - 4x^2 + 6x - 3$  so that it is exactly divisible by  $x^2 - x + 1$ .

Q27. If  $x^2 - 1$  is a factor of  $ax^4 + bx^3 + cx^2 + dx + e$ ,  
(S) show that  $a + c + e = b + d = 0$ .

Class 8

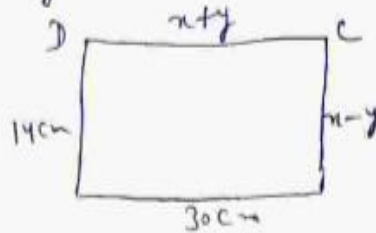
Ch-2-A pair of linear Equations in 2 Variables.

DAVPS, Khari Khurd (Sector 76)

DAVPS Rohini Sec-7 (Senior Section)

MCA

1. In the given fig, ABCD is a rectangle. The values of A x and y are



- (a) 30 cm and 14cm      (c) 16cm and 44cm  
(b) 22 cm and 8cm      (d) 17cm and 7cm.

2. The geometrical representation of the given pair of linear

equations  $-6x - 2y = 21$  and  $2x - 3y + 7 = 0$  is

- (a) parallel lines      (b) intersecting lines      (c) coincident lines.

3. How many solutions does the pair of linear equations

$4x + 6y = 9$  and  $2x + 3y = 6$  have

- (a) no soln.      (b) infinitely many solutions      (c) unique soln.

Class - 8

Ch - A pair of linear Equations in two variables  
VSA

1. The cost of 2 kg of apples and 1 kg of grapes on a day was found to be ₹ 160. After a month, the cost of 4 kg of apples and 2 kg of grapes is ₹ 300. Represent the situation algebraically.

2. Show that  $x=3$ ,  $y=4$  is not the solution of given pair of linear equations  $5x-2y=7$ ;  $x-2y=10$

3. Check whether the given pair of linear equations is consistent or inconsistent

$$6x-3y+10=0$$

$$2x-y+9=0$$

4. Find the value of  $k$  for which the given pair of linear equations has infinitely many solutions

$$2x + 3y - 5 = 0$$

$$kx + 6y - 10 = 0$$

Class - 8

Ch - A pair of linear equations in  
2 variables

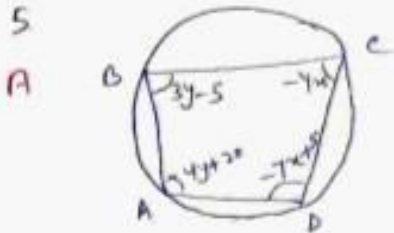
2 marks

1. Solve the following pair of linear equations  
K  
 $5x + 4y = 9$   
 $x + 2y = 3$

2. Find the value of  $k$ , the pair of equations  
A  
 $kx + 3y = k - 3$   
 $12x + ky = k$  has a unique soln.

3. Find the value of  $k$  for which the given pair of  
A equations  
 $kx + 3y = 1$   
 $12x + ky = 2$  has no soln.

4. In a  $\triangle ABC$ ,  $\angle C = 3\angle B = 2(\angle A + \angle B)$   
A Find the three angles.



ABCD is a cyclic quadrilateral.  
Find the angles of the  
cyclic quadrilateral.

Class -  $\bar{x}$

Ch - A pair of linear equations in two variables

(3 marks)

1. Draw the graphs of  $2x + y = 6$  and  $2x - y + 2 = 0$   
shade the region bounded by these lines and  $x$ -axis.  
Find the area of shaded region.

2. Solve  
A 
$$\begin{aligned} 67x + 43y &= 24 \\ 43x + 67y &= -24 \end{aligned}$$

3. Find the values of  $a$  and  $b$  for which the given pair of linear equations has infinite number of solutions.

$$\begin{aligned} (a+b)x - 2by &= 5a + 2b + 1 \\ 3x - y &= 14 \end{aligned}$$

4. A lending library has a fixed charge for the first three days and an additional charge for each day thereafter. Saritha paid ₹ 27 for a book kept for seven days, while Susy paid ₹ 21 for the book she kept for five days. Find the fixed charge and the charge for each extra day.

5. The sum of the digits of a 2-digit number and the number obtained by interchanging the digits of the number is 121. The digits of the number differ by 3. How many such numbers are there? Find all of them.

6. Find the solution of the pair of equations  $\frac{x}{10} + \frac{y}{5} - 1 = 0$   
A and  $\frac{x}{8} + \frac{y}{6} = 15$

Hence find  $\lambda$ , if  $y = \lambda x + 5$



Class-8

Ch-Linear Equations in two variables

4 marks

1) Solve the following pair of equations

A 
$$\frac{1}{3x+y} + \frac{1}{3x-y} = \frac{3}{4}$$

$$\frac{1}{2(3x+y)} - \frac{1}{2(3x-y)} = -\frac{1}{8}$$

② A boat goes 30 km upstream and 44 km downstream in 10 hours. In 13 hours, it can go 40 km upstream and 55 km downstream. Determine the speed of the stream and that of the boat in still water

A ③ Yash scored 40 marks in a test, getting 3 marks for each right answer and losing 1 mark for each wrong answer. Had 4 marks been awarded for each correct answer and 2 marks been deducted for each incorrect answer then Yash would have scored 50 marks. How many questions were there in the test?

4... If in a rectangle, the length is increased and breadth is reduced by 2 units each, the area is reduced by 28 square units. If the length is reduced by 1 unit and breadth is increased by 2 units, the area increases by 33 square units. Find the dimensions of the rectangle.

ग्रीष्मावकाश - कार्य - 2019-20

कक्षा - X, विषय - हिन्दी

DATE \_\_\_\_\_

PAGE NO. \_\_\_\_\_

पठन कौशल - अभ्यास - कार्य

1. अपठित - गद्यांश - 10 गद्यांश (अभ्यास - कार्य)
2. अपठित - काव्यांश - 10 काव्यांश (अभ्यास - कार्य)

लेखन - कौशल - अभ्यास - कार्य

1. विज्ञापन - 5 बनाएँ (अभ्यास - कार्य)
2. संवाद - लेखन - 5 लिखें (अभ्यास - कार्य)
3. सूचना लेखन - 5 " (अभ्यास - कार्य)
4. पत्र - लेखन - 5 " (अभ्यास - कार्य)
5. अनुच्छेद - लेखन 5 " (अभ्यास - कार्य)

ग्राहण - भाग

1. मुहावरे - 05 प्रतिदिन उदाहरण - अभ्यास - कार्य
2. समास - 05 उदाहरण प्रतिदिन (अभ्यास - कार्य)
3. अशुद्ध वाक्य को शुद्ध करना → 5 उदाहरण प्रतिदिन (अभ्यास - कार्य)
4. सरल - वाक्य बनाना - 5 उदाहरण प्रतिदिन (अभ्यास - कार्य)
5. संयुक्त - वाक्य - 05 उदाहरण प्रतिदिन (अभ्यास - कार्य)

नोट → संपूर्ण कार्य को एक अलग कॉपी में करें

**Art** \_\_\_ Make a necklace pendant with M Seal and paint it with Acrylic Colours as shown in the picture.



**Computer** : Make a collage online of pictures of wildlife sanctuaries in India and mail it on [sharmatara59@gmail.com](mailto:sharmatara59@gmail.com)