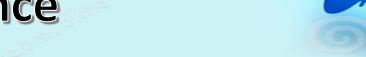
# N.R.CONVENT SR. SEC. SCHOOL HOLIDAY HOME WORK CLASS - X





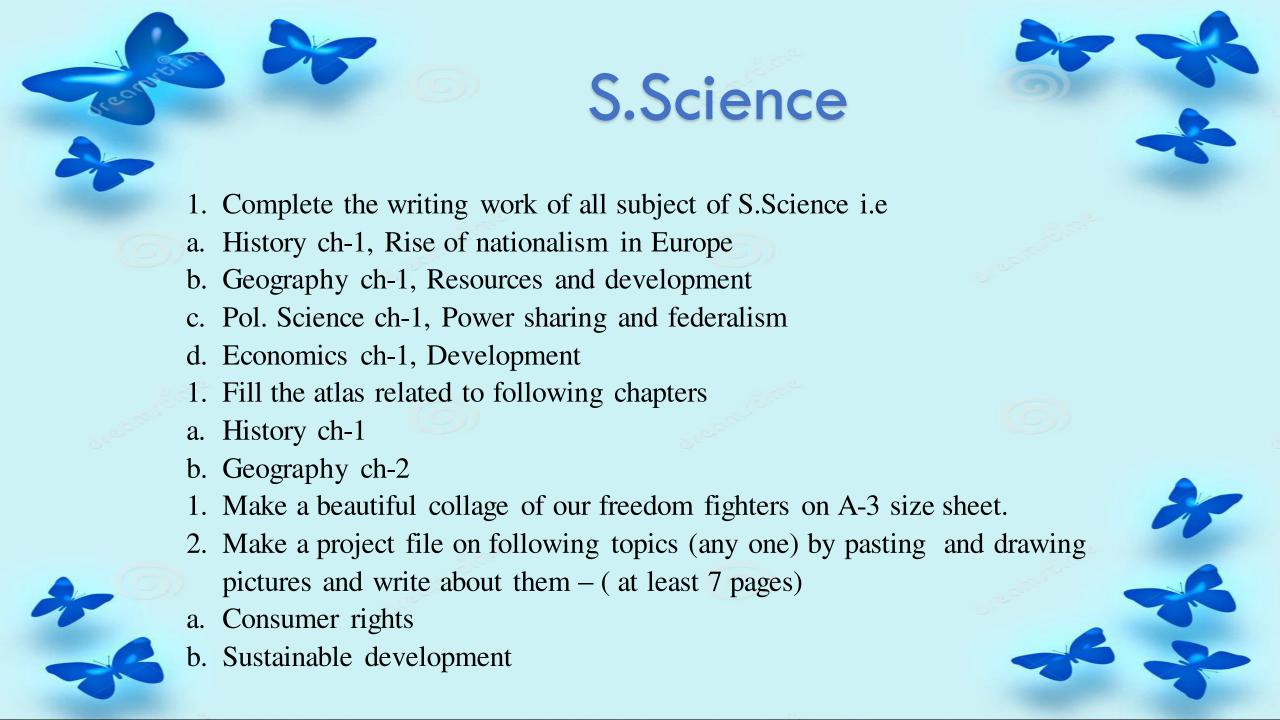
## Science



- . Learn NCERT (Intext +Exercise) question -answer of Ch-1,2,6,7,8 and 14.
- 2. Write the following practical in your Science lab Manual.

#### **Experiments:-**

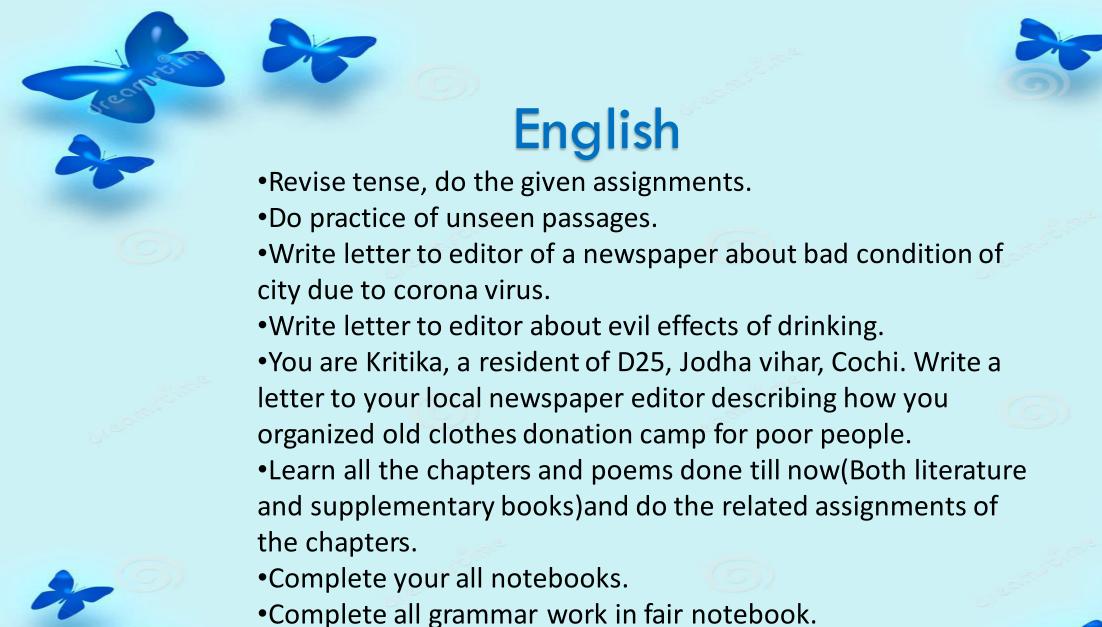
- 1. A. ph of samples Pg. 17
  - B. Prepration of acids and bases Pg. 26
  - 2. Types of chemical reaction Pg. 35
  - 3. Reactivity of Metals -Pg. 43
  - 4. Ohm,s law Pg. 53
  - 5. A. Registers in Series Pg.65
    - B. Registers in Parrallel Pg.74
  - 6. Stomata Pg. 84
  - 3. Students complete your science notebook (question answer of intext and exercise ) of ch-1,2,6,7,8 and 14



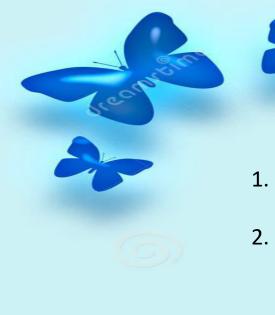


उतिषमावकाश ग्रहकारी 2020-21 कका दसवीं विषय हिन्दी रचनातमक - कौशल (परियोजना पुस्तिका में करना है) "रस" का विस्तार से वर्णन करी। सभी रसी की चित्र सहित समझाओं सूरदास और तुलसीदास का जीवन परिचय लिखी। चित्र सहित निवांध भेखन -> \* यूना निवांध का विदेशों के प्रति बढ़ता मीह \* बीता समय फिर लेरिता नहीं पत्र लेखन > नगर में बढ़ती भीड़-भाड़ के कारण परिवहन की जिटल समस्या के हल के लिए सड़की की और अधिक चौड़ा किए जाने की आवश्यकता पर बल देते हुए अपने राज्य के मुख्यमंत्री की पत्र लिखिए। \* आपने शहर में सभी प्रकार के खाद्य - पदार्थी में मिलावट का दांधा लगातार बढ़ता ही जा रहा है। अपने राज्य के आदय मंत्री की पत्र लिखकर इस समस्या के प्रति उनका ध्यान आकृष्ट की जिए। विज्ञापन लेखन > \* पर्यावरण के प्रांति जागरूकता वहाने के लिए लगभग 50 शब्दों में स्क विज्ञापन तैयार की जिस् \* " रुक्सपर " मीलाइल फीन की बिक्री वढ़ाने हेतु विज्ञापन तैयार की जिए। पूरी दुनिया में फेली कौरोजा जैसी महामारी का विस्तार पूर्वक वर्णन करी









## Computer

- 1. Write down the steps for booking a movie ticket online (write down in your notebook).
- 2. Which type of Computer Indian Railways use to interact with the customers for the various online functions like Booking, Cancellation, Showing the current status and so on. (Write down in your notebook).
- 3. Create a PPT on the following topic and format it using various effects. Divide the students in two groups
  - ->Odd Roll Number ->Even Roll Number
  - A. The First group (Odd Roll No.) to prepare a PowerPoint Presentation on the topic-
  - 1. Web Server website
- 2. Web Browser

- 3. Components of a
- B. The Second group (Even Roll No.) to prepare a presentation on the topic-
- 1. Components of Web Page
- 2. URL & its components
- 3. Basic Internet Terminology
- 4. Revise Chapter 1 and 2 whatever we have done in the notebook.





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ASSIGNMENT (HOLIDAY HOMEWORK)

CHAPTERS : POLYNOMIALS, LE IN TWO VARIABLES

- 1. Find the zeroes of the following quadratic Polynomials and verify the relationship between the zeroes and coefficients.
  - (i)  $x^2 2x 8$  (ii)  $4s^2 4s + 1$  (iii)  $6x^2 3$
- 2. Find the zeroes of the following quadratic Polynomial and verify the relationship between the zeroes and the coefficients.
  - (i)  $4\sqrt{3}x^2 + 5x^2 + 2\sqrt{3}$  (ii)  $abx^2 + (b^2 ac)x bc$  (iii)  $v^2 + 4\sqrt{3}v 15$  (iv)  $4x^2 + 5\sqrt{2}x 3$
- 3. If α and β are the zeroes of polynomial 3x2+5x-2. Then form a quadratic polynomial whose zeroes are 2x and 2β.
- 4. If a and B are two zeroes of the polynomial 3x24x+1 find a quadratic polynomial whose zeroes are
- 5. If a and  $\beta$  are the zeroes of the quadratic polynomial  $3x^2+2x+1$ , then find a quadratic polynomial whose zeroes are  $\frac{1-\alpha}{1+\alpha}$  and  $\frac{1-\beta}{1+\beta}$ .
- 6. If α and β are the zeroes of polynomial 2x2-5x+7, find the quadratic polynomial whose zeroes are 2α+3β and 3α+2β.



If a and I are the zeroes of the polynomial 4x2-2x+ (K-4). Find the value of K.

- of and Bare the zeroes of quadratic polynomial x=(K+6)x,+2(2K-1). Find 'K' 4 x+B= 1. xB.
- 9. If a and & one the zeroes of Polynomial .... P(x) = 2x2+5x+K, satisfying the relation X+B+ xB = 21. Find the value of 'K'.
- 10. If a and B are the zeroes of quadratic polynomial P(x) = ax2+bx+c, then find the values of.

  - (4) 1 + 1 + 1 + 1 (4) (4) x3+ p3- 4 4 4 4 4
  - (vii)  $\alpha^{3} = \beta^{3}$  (viii)  $\frac{1}{\alpha^{3}} + \frac{1}{\beta^{3}}$
- 11. If a and p are the zeroes of Polynomial 2x-4x+5 find the value of
  - (1) x+ p2 (11) = + + + + (11) (11) (x-p) (iv) = + p2 (v) ×3+p3.
- If one zero of a quadratic polynomial (9+9)x+13x + 6a is reciprocal of the other, find the value of a.
- If x, B are the zeroes of polynomial P(x) = x2-5x+4 find the value of 2+ 1 - 2 × B.



36

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- 35 36 The polynomial x4+2x3+8x2+12x+18 is divided out to be Px+q - Find op and q :
  - 15. If the polynomial 6x4+8x3-5x2+ax+b is exactly divisible by polynomial 2x=5, then find the value of a and b.
  - 16. If the polynomial x4 6x3 + 16x2-25x + 10 is divided by another polynomial x=2x+k the remainder comes out to be x+a, find the value of k and a. 1 " "

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- 17. Divide 3x2-x3-3x+5 by x-1-x2 and hence verify
- division algorithm:

  18. Find au the zeroes of a cubic polynomial 2x3+x2-6x-3

  et two of its zeroes are -13 and 13.
- 19. Obtain all the zeroes of 3x4+6x3-2x2-10x-5 if two of its zeroes are 5 and - 5 ...
- 20. If two zeroes of Polynomial .P(x) = x4 6x3-26x4 138x -35 are 2+13. Find the other two zeroes.
- 21. Find k' so that x2+2x+x is a factor of 2x4+x3-14x2 +5x+6. Also find all the zeroes of the two polynomials.
- 22. If x=1 is the factor of ax4+bx3+cx2+dx+e. show that a+b+c+d+e=0. 818- 1181 = 11
- 23. Obtain all the zeroes of x4- 7x3+17x2-17x+64
- two of its zeroes are 1 and 2.

  24. Find all the zeroes of polynomial 2x4-3x3-5x2+9x-3 if two of its zeroes are 1 and 2-
- 25. Divide 2x4-9x3+5x2+3x-8 by x2-4x+1 and verify the division algorithm.



26. On comparing the ratios of bi and ci , find out whether the following pairs of linear equations are consistent or inconsistent.

- (1) 3x+2y=5; 2x-3y=7.
- 2x-3y=8; 4x-6y=9
- (iii)  $\frac{3}{2} \times + \frac{5}{3} y = 7$  | 9x-10y = 14
  - (iv) 5x-3y=110x+6y=-22.
- 27. solve 2x+3y=11 and 2x-4y=-24 and hence find the value of 'm' for which y=mx+3.
- 28. Solve the following equations by equating their coefficients.
  - (1) = 4x-3y-8=0; +6x-y-29=0: M+ 12 ....
  - (i) 7x-8y-11 =0 -; 8x-7y-7=0
  - - (iv) 4x+7y=20 ; 21x-13y=21
  - (c) 23x-17y+11=0; 31x+13y-57=0.
- 29. Solve for x and y. " so for sol of 200 de 1 = 1 217x+131y=913 10= 1 = b= > 1 = 1 = 1 = 1 -131 x + 217y = 827.
- Solve for x and y. I have a see the server  $\frac{948}{x} + \frac{231}{y} = \frac{527}{xy}$

31: finsolversfor of and yis promise on the series

(i) 
$$5x + 31y = 103$$
  
 $31x + 5y = 77$ 

$$\frac{(ii)}{101 \times + 999} = 499$$

$$\frac{(iv)}{254 \times + 3099} = -55$$

the state of the state of the

(i) 
$$2x+3y=7$$
;  $6x-5y=11$ 

b) 
$$a(x+y)+b(x-y)=a^2-ab+b^2$$
  
 $a(x+y)-b(x-y)=a^2+ab+b^2$ 

4. Solve the following equation.

$$ax + by = 1$$

$$bx + ay = \frac{(a+b)^2}{a^2 + b^2} - 1$$





36. For what value (s) of a and b does the following pair of linear equation have an infinite number of solutions 
$$2x+3y=7$$
;  $(a-b)x+(a+b)y=3a+b-2$ 

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39. Find the value of a and b for which the pair of equation has infinitely many solution.
$$2x-3y=\mp \qquad (a+b)x-[(a+b)-3]y=4a+b.$$

no solution 
$$3x+y=1$$
;  $(3x-1)x+(k-1)y=2k+1$ 



has no solution.

$$x+pg+3 = -3$$
;  $3x+2y=5$ ;

46. If 40+35=65; and a+25=35. Find the value of a/6.

47. solve the following equations.

(i) 
$$\frac{x}{3} - \frac{2}{x+y} = 1$$
 $\frac{x}{4} + \frac{3}{x+y} = 3$ 

(iv)  $\frac{14}{3+y} + \frac{3}{3x-y} = 5$ ;  $\frac{21}{3x+y} = \frac{1}{x+y} = \frac{2}{x+y}$ (iv)  $\frac{3}{2(x+2y)} + \frac{5}{3(3x-2y)} = \frac{3}{2}$ 

$$\frac{5}{4(x+2y)} - \frac{3}{5(3x-2y)} = \frac{61}{60}$$

48. Solve; 24+3=24; 54+8=3164.

49. 
$$\frac{x+y}{xy} = 2$$
;  $\frac{x-y}{xy} = 6$ . Find x and y.

50. Find u and v. 2u + 15v = 1 + uv5(u+v) = 36uv.







### INOSK from NCERT

1. Practice chapter - 2 (Polynomials)

Exercise - 2.2

Exercise - 2.3

Exercise - 2.4

2. Practice chapter - 3 (L.E in two variables)

Exercise - 3.2

Exercise - 3.3

Exercise - 3.4

Exercise - 3.5

Exercise - 3.6

Note: - Test will be taken from above syllabus after opening of school.

- Do all Questions properly in your notebook



