**Holiday Homework Grade 10th**

**English**

Bravia : do comprehension worksheets 1-10 on Bravia book itself.

Holidays package: Do worksheet 11-15 on book itself.

**Hindi**

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**Chemistry**

* 1. Written work – write 25 internal question from chapter 1and 2 each . In which questions 1to 10 carry one marks and question 11 to 25 carry 2 marks
* 2. Learn the question –answers of all chapter 1 and 2.
* 3. Chart based on the acids and bases and their reaction with different indicators.
* There will be a science quiz after holidays.

**BIOLOGY**

* **Learn all NCERT Question Answer of Chapter life processes and control and coordination**
* **2. Prepare one modal based on reuse of plastic**
* **3. Prepare one chart showing Human digestive system and Excretory system**

**Social Science**

**Assignment 1**

Students will make a project assignment of ***Disaster Management.***

Content will comprise the following sub topics: Tsunami, Floods, Famine, Landslides, Earthquake, Cyclone and Drought.

Students will paste the required pictures in their assignment.

**Content:**

1. Causes
2. Precaution before disaster
3. Safety Measures taken during the disaster
4. Measures after the disaster
5. Role of the govt
6. Role of the community
7. Roe of the NGO

**Assignment 2**

Topic: Regional Political parties

Students will paste the required information in their assignment.

Name of political parties:

Akali Dal, AIADMK, Biju Janta Dal, Shiv Sena, Janta Dal(U)

1. Their history
2. Prominent Leaders
3. Performance in Assembly and 2019 Lok Sabha Elections
4. Significance in National Politics and contribution
5. Their Ideology
6. Required Pictures

**Geography**

1. Learn and write the states of India and their capitals and show them on the political map of India.
2. Learn and write the names of the New Prime Minister of India, The Councils of Ministers and their departments and the names of your state Chief Minister and cabinets minister of Punjab.
3. PPT on Land, water and soil.
4. Learn and write important points of each chapter of Ist term.
5. Do thorough reading of all chapters of Social Studies which you have read in the class.
6. What you have done in your holidays for environment, society , parents etc.

**Punjabi**

1H torhfeqs fJPfsjko nypko ftu'A eZN e/ J/4 ;kJhi ;hN s/ fugekU.

2H Gkr fwbyk Gkr fcbw d/y' ns/ fwbyk f;zx dh ihtBh \*s/ nXkfos gqPBK d/ T[Zso fby e/ fbnkU.

**Computer:**

Prepare presentation on HTML.

**Math**

1. Find the HCF of 321 and 396 using E.D.A.
2. Using Euclid’s Division Lemma, find the HCF of 92690, 7378 and 7161.
3. Prove that $\sqrt{7}$ is an irrational number by contradiction method.
4. Prove that $\sqrt{2 }$ + $\sqrt{3}$ is an irrational number.
5. Find the zeroes of the following quadratic polynomials and verify a relationship between zeroes and its coefficients.
6. 6x2 + 3 – 7x
7. T2 – 15
8. Find a quadratic polynomial whose sum of zeroes and product of zeroes are respectively.
9. $\frac{1}{4}$, -1
10. - $\frac{1}{4}, \frac{1}{4}$
11. $\sqrt{2}$, - $\frac{3}{2}$
12. Verify that: $\frac{1}{2}$, 1, -2 are zeroes of cubic polynomial 2x3+x2-5x+2. Also verify the relationship between the zeroes and their coefficients.
13. Divide 3x3-4x2+8x-1 by x-2.
14. On dividing x3-3x2+x+2 by a polynomial g(x), the quotient and remainder were x-2 and -2x+4 respectively. Find g(x).
15. If two zeroes of the polynomial x4-6x3-26x2+138x-35 are 2+$\sqrt{3}$. Find other zeroes.
16. Solve the following equation graphically:

X+2y=1, x-2y=-7

1. Solve by Substitution method:

$\frac{3}{2}$ x -$ \frac{5}{3}$y=2 $\frac{x}{3}$ + $\frac{y}{2}$ = $\frac{13}{6}$

1. Solve by Cross multiplication method

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

1. Solve by Cross multiplication method

11x+15y = - 23

7x – 2y =20

1. For what value of k the following system of equations has a unique solution

X – ky =2

3x + 2y = -5

1. Solve for x and y

47x + 31y = 63

31x +47y = 15

1. The sum of the two number is 18. The sum of their respective reciprocals is $\frac{1}{4}$. Find the numbers.
2. Father’s age is three times the sum of ages of his two children. After 5 years his age will be twice the sum of ages of two children. Find the age of father.
3. Meena went to a bank to withdraw ₹ 2000. She asked the cashier to give ₹50 and ₹100 notes only. Meena got 25 notes in all. Find how many notes of ₹50 and ₹100 she received?
4. 8men and 12 boys can finish a piece of work in 10 days while 6 men and 8 boys can finish it in 14 days. Find the time taken by one man alone and that by one boy alone to finish the work.
5. A boat covers 32 km upstream and 30 km downstream in 7 hours. Also, it covers 40 km upstream and 48 km downstream in 9 hours. Find the speed of the boat in still water and that of the stream.
6. Find the value of m for which the roots of the equation mx(6x + 10) +25=0 are equal.
7. Show that if the roots of the following equation are equal that

ad=bc or $\frac{a}{b}$ = $\frac{c}{d}$

x2 (a2 + b2) +2(ac + bd)x + c2 + d2=0

1. Solve for x: $\sqrt{2x+9}$ + x=13
2. Solve for $\sqrt{6x+7}$ - (2x-7) =0
3. Solve for x:

$\frac{2x}{x-3}$ + $\frac{1}{2x+3}$ + $\frac{3x+9}{\left(x-3\right)(2x+3)}$ = 0 x≠3, - $\frac{3}{2}$

1. Solve for x: $\frac{1}{x-3}$ + $\frac{2}{x-2}$ = $\frac{8}{x}$, x≠0, 2, 3.
2. A motor boat whose speed in still water is 18km/h, takes 1 hour more to go 24 km upstream than to return downstream to the same spot. Find the speed of the stream.
3. Two water taps together can fill a tank in 11$\frac{1}{9}$ hours. The tap of smaller diameter takes 5 hours more than the larger one to fill the tank separately. Find the time in which each tap can separately fill the tank.
4. What is the common difference of an A.P. which a21 – a7 = 84?
5. Find the sum of first16 terms of A.P. 10, 6, 2, ….
6. How many terms of the A.P. 65, 60, 55,… be taken so that their sum is zero?
7. The nth term of an A.P. is an=2n+1. Find its sum.
8. Find the sum of first n terms of an A.P is n2, then find its 10th  term.
9. Find the sum of all multiples of 7 lying between 500 and 900.
10. If the sum of first four terms of an A.P. is 40 and that of first 14 terms is 280. Find the sum of its first n terms.
11. Find the 20th term from the last term of the A.P. 3, 8, 13, … , 253.
12. How many multiples of 4 lie between 10 and 250.
13. Find the sum:

34+32+30+….+10

1. Find the sum of odd numbers between 0 and 50.