



SHYAM BIHARI SR. SEC. PUBLIC SCHOOL

HOLIDAY HOMEWORK (2022-23)

Class – 10th

Note – Do all the work in your holiday notebooks.

Subject – HINDI		Duration – 22 – 25 June 2022
		Online Meeting Date – 26/06/2022 (07:00 PM)
		Visit for Homework - https://www.sbpublicschool.com/notice/summer-holiday-homework/
Sr.No.	Topic	
	काव्य – खण्ड	
1	सूरदास पाठ – 1 के प्रश्नों के उत्तर याद कीजिए।	
2	सूरदास की मुख्य विशेषताओं को पढ़िए तथा याद कीजिए।	
3	सूरदास के तीसरे पद का अर्थ स्पष्ट करके लिखिए।	
4	तुलसीदास की चार चौपाइयों का अर्थ स्पष्ट कीजिए।	
5	तुलसीदास पाठ-2 के सात प्रश्नों के उत्तर याद कीजिए।	
6	तुलसीदास की पांचवी चौपाई का भाव स्पष्ट कीजिए।	
	गद्य – खण्ड	
7	स्वयं प्रकाश के जन्म के बारे में लिखकर याद कीजिए।	
8	नेताजी का चश्मा पाठ के आधार पर 10 प्रश्नों के उत्तर याद कीजिए।	
9	नेताजी का चश्मा पाठ के किन्हीं दो लाइन पर अपने विचार लिखिए।	
10	स्वयं प्रकाश के विचार विमर्श कीजिए।	
	व्याकरण	
11	कृत्वाच्य की परिभाषा याद कीजिए।	
12	अलंकार के प्रकार नाम सहित याद कीजिए।	
13	बहुब्रीहि समास की परिभाषा उदाहरण सहित याद कीजिए।	
14	समास के प्रकार नाम सहित याद कीजिए।	
Subject – Science		Duration – 26 – 27 June 2022
		Online Meeting Date – 28/06/2022 (07:00 PM)
Sr.No.	Topic	
1	What do you mean by a chemical reaction and Identification of Chemical reaction? Also explain types of Chemical reaction with atleast two examples.	
2	Describe the mode of nutrition (Autotrophic Nutrition) Heterotrophic Nutrition types and Nutrition and Human beings.)	
3	Define reflection of light, law of reflection. And types of mirror and also representation of images formed by spherical mirrors using ray diagrams and also uses of mirrors. (Plane, Concave and convex)	
Subject – Mathematics		Duration – 28 – 30 June 2022
		Online Meeting Date – 30/06/2022 (07:00 PM)
Sr.No.	Topic	
1	Show that square of odd integer is of the form $4q + 1$ for the some integer q .	
2	Uses Euclid's division Lemma to show that the cube of any positive integer is either of the form $9m$, $9m + 1$ or $9m + 8$ for some integer m .	
3	Use Euclid's division Algorithm to find the HCF of –	

	(i) 210 and 55 (ii) 4052 and 12576 (iii) 105 and 120
4	Explain why $3 \times 5 \times 7 + 7$ is composite number.
5	Write smallest number which is divisible by 306 and 657.
6	Prove each of the following that they are irrational now – (i) $\sqrt{2} + \sqrt{5}$ (ii) $4 - 5\sqrt{2}$ (iii) $2\sqrt{3} - 1$
7	Draw the graph of polynomials – (i) $f(x) = x^2 - 6x + 9$ (ii) $f(x) = -4x^2 + 4x - 1$
8	Find Zeroes and Verify the relationship b/w the zeroes and its coefficients. (i) $x^2 + 7x + 12$ (ii) $6x^2 - 3$ (iii) $4x^2 + 8x$ (iv) $4\sqrt{3}x^2 + 5x - 2\sqrt{3}$ (v) $6x^2 - 3 - 7x$
9	If α & β are the zeroes of quad. Poly $5x^2 - 7x + 1$ find value of $\frac{1}{\alpha} + \frac{1}{\beta}$.
10	If two zeroes of poly. $f(x) = x^3 - 4x^2 - 3x + 12$ are $\sqrt{3}$ and $-\sqrt{3}$ then find its third zeroes.
11	If 4 is zeroes of cubic poly. $x^3 - 3x^2 - 10x + 24$. find its other two zeroes.
12	Solve graphically the system of equation – (i) $x + y = 3$; $3x - 2y = 4$ (ii) $2x + 4y = 10$; $3x + 6y = 12$
13	Draw the graphs of following equations $2x - y - 2 = 0$; $3x - 2y = 4$; $y + 4 = 0$ obtain the vertices of triangle so obtained. Also determine its area.
14	Solve the following system of equations by using the method of substitution and elimination – (i) $3x - 5y = -1$ (ii) $x + 2y = -1$ (iii) $2x + 3y = 9$ $x - y = -1$ $2x - 3y = 12$ $3x + 4y = 5$
15	Solve the following equations by factorization method – (i) $\frac{x}{x+1} + \frac{x+1}{x} = \frac{34}{15}$ (ii) $\frac{x+3}{x-2} - \frac{1-x}{x} = \frac{17}{4}$ (iii) $x^2 + 2\sqrt{2}x - 6 = 0$ (iv) $\sqrt{3}x^2 + 10x + 7\sqrt{3} = 0$ (v) $\frac{1}{1+b+x} = \frac{1}{a} + \frac{1}{b} + \frac{1}{x}$
16	Using quadratic formula solve the following quad. Eq. – (i) $p^2x^2 + (p^2 - q^2)x - q^2 = 0$ (ii) $9x^2 - 9(a + b)x + (2a^2 + 5ab + 2b^2) = 0$
17	Solve for x – (i) $x + \frac{1}{x} = 3$ (ii) $\frac{1}{x} + \frac{2}{2x-3} = \frac{1}{x-2}$ (iii) $\frac{16}{x} - 1 = \frac{15}{x+1}$
18	Find the value of K for which the roots are real and equal in each of the following quad. Equations. (i) $4x^2 - 2(K + 1)x + (k + 4) = 0$ (ii) $4x^2 - 2(k + 1)x + (k + 1) = 0$
19	If roots of equation $(b - c)x^2 + (c - a)x + (a - b) = 0$ are equal, then P.T $2b = a + c$.
20	(i) Find the middle term of the AP 6, 13, 20, _____ 216. (ii) If m^{th} term of AP be $\frac{1}{n}$ and n^{th} term be $\frac{1}{m}$, then show that its $(mn)^{th}$ term is 1. (iii) If m times the m^{th} term of an AP is equal to n times its n^{th} term. Show that the $(m + n)^{th}$ term of AP is Zero.
21	If the numbers $n - 2$, $4n - 1$ and $5n + 2$ are in AP find the value of n.
22	(i) The sum of m terms of an AP is same as the su of its n terms, show that the sum of (m + n) terms is Zero. (ii) The sum of n, 2n, 3n terms of an AP are S_1, S_2, S_3 respectively P.T. - $S_3 = 3(S_2 - S_1)$.

Subject – Social Science

Duration – 01 – 05 June 2022

Online Meeting Date – 06/06/2022 (07:00 PM)

Sr.No.	Topic
1	Discuss the accommodation of Belgium.
2	Name and explain various forms of power sharing in India.
3	Write a short essay a power sharing in Democracy.

4	Distinction between unitary and Federal Types of Government.
5	Differ – International Prestige, Linguistic states, Stipulated, Alienation
6	Classify resources on the basis of origin exhaustibility and explain with ex.
7	Show on a map the types of soil with colour and Indicate state Also.
8	Make a list of Dem of India with state.
9	What were the Major problems occurred by indiscriminate use of resources by human beings.
10	Expand – UNDP, WDR, IMR, NAR, PDS
11	Collect latest information related to India. (i) Infant Mortality rate (ii) Literacy rate (iii) Rank on Human development India. (iv) Net attendance ratio
12	Make a chart three sectors with picture.
13	Give the percentage share of sectors in India GDP.
14	Write a short note the revolutions of 1830, the Revolutions of 1848.
15	Write the Biographies with pictures – (i) Giuseppe Mazzini (ii) Giuseppe Garibaldi (iii) Count Cavour
16	Explain Nationalism.

Subject – English

Duration – 06 – 11 June 2022

Online Meeting Date – 12/06/2022

Sr.No.	Topic
1	Write summary of a letter to God?
2	Write the summary of A Thief is story?
3	Write something about Nelson Mandela.
4	Write a letter to editor that electricity is not continued in your locality.
5	Make the chart of Tense.

Subject – Computer

Duration – 12 – 20 June 2022

Online Meeting Date – 21/06/2022

Sr.No.	Topic
1	Prepare a greeting card in MS word 2010. (Topic – Diwali, Holi, Eid, Raksha Bandhan any two)
2	Prepare a presentation on Global warming in MS PowerPoint 2010.
	(Questions are from book part – C)