

CLASS:IX

BOKAROPUBLICSCHOOL

SECTOR-3/C, BOKAROSTEELCITY-827003

HOLIDAYHOMEWORK

DATE: 06.05.2024

S.N O.	SUBJECT		Holiday Homework	Project Work
1.	ENGLISH	 ENGLISH (Ms. Priyanka Kumari) ✓ Make a project on Ch-1 "The Lost Child" by Mulk Raj Anand including About the author Summary Message Using Picture ✓ Make an attractive presentation of tour place that you visited in summer vacation depicting its significance, uniqueness and your experience on big chart paper. 		1. Cardboard Thread File 2. A4 Size project papers
2.	HINDI	HINDI	(Mrs. Purnima Singh)	
		1.मुंशी प्र	मिचंद अथवा कबीर दास का	
		जीवन	न परिचय दिये गये सन्दर्भ के	
		आधा	र पर दे	
		I.	परिचय ,प्रमाणपत्र	
		II.	अभिस्वकृति, अनुक्रमणिका	
			(INDEX)	
		III.	जीवन परिचय	
		IV.	साहित्यिक परिचय	
		V.	परिवार,बचपन	
		VI.	प्रमुख रचनाएँ	
		VII.	भाषा शैली	
		VIII.	मृत्यु	
		IX.	सन्दर्भ ग्रन्थ सूची	

3.	MATHS	CH-1 : REAL NUMBER	
		1. Find six rational number between 3	
		and 4.	
		2. Express 0.999999 in the form of	
		p/q.	
		3. Represent $\sqrt{2}$, $\sqrt{3}$ and $\sqrt{5}$ Number	
		line.	
		4. Rationalise	
		$, 2, 6-4\sqrt{3}, 7\sqrt{3}-5\sqrt{2}$	
		a) $\frac{1}{\sqrt{3}-\sqrt{5}}$ b) $\frac{1}{6+4\sqrt{3}}$ c) $\frac{1}{\sqrt{48}+\sqrt{18}}$	
		d) $\frac{2\sqrt{6}+\sqrt{5}}{-7}$	
		3\(\5+2\(\6)	
		5. if x=3-2 $\sqrt{2}$ find $x^2 - \frac{1}{2}$	
		6. Find the values of a and b	
		$7+3\sqrt{5}$ 7+3 $\sqrt{5}$ —	
		if $\frac{1}{3+\sqrt{5}} - \frac{1}{3+\sqrt{5}} = a+b\sqrt{5}$	
		7. Simplify	
		a) $(1^3 + 2^3 + 3^3)^{1/2}$	
		b) $\left[(16)^{1/2} \right]^{1/2}$	
		CH-2 : POLYNOMIALS	
		1. If $p(x)=x^2-2\sqrt{2}x+1$ then find $p(2\sqrt{2})$	
		2. If $(x^{51}+51)$ is divided by (x+1) then find	
		remainder.	
		3. If (X+1) is a factor of $p(x) = 2x^2 + kx$ then find k	
		4. When $p(x) = x^4 + 2x^2 - 3x^2 + x - 1$ is divided by	
		(x-2) then find remainder.	
		5. Find the zeros of $p(x)=x^2-3x$	
		6. Factories	
		a) $x^2-4x-21$	
		b) $6x^2 + 17x + 5$	
		c) $8x^3+y^3+27z^3-18xyz$	
		a) $(x - 2y)^{3} + (2y - 3z)^{3} + (3z - x)^{3}$	
		7. II at DTC - 25 and aDTDC+Ca = 10 (nen prove that $a^3+b^3+c^3$ -3abc =-25	
		8. Find the value of $x^3+v^3-12xv+64$ when	
		x+y=-4.	

4.	SCIENCE	PHYSICS – CHAPTER – MOTION	
		(Mr. KEDAR KUMAR)	
		1 Speed and types of speed	
		1. Speed and types of speed	
		2. Velocity and its types	
		3. Acceleration and its types	
		4. Equations of motion(by	
		graphical method)	
		5. Example 1.1 to 1.7	
		CHEMISTRY – CHAPTER – THE	
		MATTER IN OUR SURROUNDINGS	
		(Mr. KEDAR KUMAR)	
		1. Kinetic theory of matter	
		2. Solid and properties of solid	
		3. Liquid and properties of	
		liquid.	
		4. Thermometer and types of	
		thermometers	
		5. Latent heat of fusion	
		6. Latent heat of vaporization.	
		7. Condensation	
		8. Sublimation	
		9. Evaporation and factors which	
		affect rate of evaporation	
		Biology :(Mr. Manzar Alaam)	
		Practical work (Need to write in separate Practical copy)	
		1. Preparing a temporary mount of a leaf peel to	
		show stomata.	
		2. Experimentally show that carbon dioxide is given	
		out during respiration.	
		Theory Assignment	
		Long Answer (LA) Type Questions	
		 Describe the structure of nucleus with a labelled diagram. Describe the structure of a mitochondrion with a well-labelled diagram. Define the following: 	
		(a) Diffusion (b) Osmosis (c) Plasmolysis (d) Endocytosis (c) Exocytosis (l) Tonicity	
		4. Give functions of the following: (a) Golgi bodies (b) Lysosomes (c) Ribosomes (d) Centrioles (e) Peroxisomes (f) Nucleable	
		5. What are plastids? Give their types and functions. Also describe the structure of any one of them along with the labelled diagram.	
		 b. Draw a plant cut and table the part which (a) determines the function and development of the cell. (b) packages materials coming from the endoplasmic reticulum. 	
		 (c) provides resistance to microbes to withstand hypotonic external media without bursting. (d) is a site for many biochemical reactions necessary to sustain life. (e) is a fluid contained inside the nucleus. 	
		 Illustrate only a plant cell as seen under electron microscope. How is it different from an animal cell? Draw a well-labelled diagram of eukaryotic nucleus. How is it different from nucleoid? 	
		9. In brief state what happens when (a) dry apricots are left for sometime in pure water and later transferred to sugar solution? (b) a red blood cell is keep in concentrated saline solution?	
		(c) the plasma membrane of a cell breaks down?(d) Rhoeo leaves are boiled in water first and then a drop of sugar syrup is put on them?	
		 Codgi apparatas is removed from the coli Draw a well-labelled diagram of a plant cell and an animal cell. Draw a next habelled diagram of an animal cell. 	
		 Draw a well-labelled diagram of mitochondrion and chloroplast. Discuss the process of meiosis in detail. Also draw the relevant diagrams. Write significance of 	
		meiosis.	

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5.	SOCIAL	1. Flash Card Making :	1) Materials used :
	STUDIES	Topic: Democratic and undemocratic	Colour chart paper
	(087)	country.	Paper Size: 4" / 6"
		2. Map Study:	
		A. Locate and label on the given outline	
		word map	3) Material for use: Bit
		I. / largest country in the	of chart paper/card board
		world(on political map of the	(White or color)
		B Locate and label on the given outline	Size: 371
		political map of India.	
		I. The states through tropic of	
		cancer passes.	
		II. The union territories of India	
		III. Any 2 neighboring countries	
		3. Slogan Writing :	
		Or	
		Song Poem/Rhymes writing	
		Topic: Democracy	
		How to Submit: (Koon the ontire works in	
		how to submit. (Reep the entire works in hand made file	
6.	SANSKRIT	1 $-\tau_{0}$	Stick फाडल में बनाएँ
		।. दरा ानातरलाक अय साहत लिख	
		2. गीता के अध्याय - 4 से किन्ही पांच श्लोको	
		को लिखे तथा अर्थ को बताएँ	

7.	COMPUTER (A.I – 417)	Computer (Mr. Amit Kumar) 1. What is communication? Explain the communication cycle with the help of diagram.	Write 15 python programming with its output in the practical computer copy
		2. What are the factors that act as barrier in communication?	
		3. How can we establish effective communication? Give 3 points.	