

SHAKUNTALA VIDYALAYA, RAM NAGAR BHILAI

SUMMER VACATION ASSIGNMENT

Session: 2024-25

Class –X

S. No.	Subject	Homework
1	English	<p>1. When the post master came to know about the derogatory comments made by Lencho regarding the amount of money received, he got depressed and perturbed. At night he poured out his dismay in the form of Diary Entry. Assume yourself to be the Postmaster and make a Diary Entry in 100-120 words You may start like this Dear Diary, The very motto “As you sow, so shall you reap.” does not prove worthy every time.....</p> <p>2. Bed of roses, in the long run, turns into a crown of thorn where bliss is far cry and tribulation dominates. Write a paragraph on – “Over pampering fetches woe in one’s life.” Take the reference from the story A Triumph Of Surgery., Word Limit – 100-120 words</p>
2	Hindi	<p>प्रश्न 1 चौराहे या मुख स्थान पर लगाई गई महापुरुषों की मूर्तियाँ क्या संदेश देती हैं, आप अपने क्षेत्र में किस महापुरुष की मूर्ति लगाएंगे कारण सहित अपने विचार व्यक्त कीजिए ।</p> <p>प्रश्न 2 वात्सल्य और ममता की आधार - भूमि एक रहने पर भी माता- पिता और बच्चों के संबंधों में तब और अब तक बहुत बदलाव हुए हैं। "माता का अंचल" पाठ के आधार पर इसे सोदाहरण स्पष्ट कीजिए।</p>
3	Mathematics	<p>1. During summer vacation Mahesh go to the library to enhance the reading skills. He observe that there are 130 books in first row and 136 books in second row . Answer the following questions I) What is the minimum number of books required for row 1 and row II . II) If the product of two integers is equal to the product of their HCF and LCM then find HCF (132,136). III) express 420 as a product of its prime factorization.</p> <p>2. Srikanth has made a project on real number during his summer break where he finely express explained the applicability of exponential laws and divisibility conditions on real number. He also included some assessment questions at the end of his project as listed below answer the following questions I) For what value of n, 4^n ends in 0? II) Explain why 520 ends with zero. III) State fundamental theorem of arithmetic.</p>
4	Physics	<p>Light is a form of energy that enables us to see things. Light starts from a source and bounces off objects which are perceived by our eyes, and our brain processes this signal, which eventually enables us to see. Maxwell predicted that magnetic and electric fields travel in the form of waves, and these waves move at the speed of light. This led Maxwell to predict that light itself was carried by electromagnetic waves, which means that light, is a form of</p>

		<p>electromagnetic radiation.</p> <p>Based on the above paragraph answer the following questions.</p> <ol style="list-style-type: none"> If the angle between incident ray and reflected ray is a right angle then what is the value of angle of incidence. Write down the any two uses of Concave and Convex mirror respectively. Draw the ray diagram for a concave mirror for magnification equal to “-1”. Explain the Laws of reflection with suitable diagram.
5	Chemistry	<ol style="list-style-type: none"> Corrosion is the phenomenon of deterioration of surface of metal in presence of air and moisture. It is a natural process and in the presence of a moist atmosphere, chemically active metals get corroded. This is an oxidation reaction. Rusting is the process where iron corrodes due to exposure to the atmosphere. The main circumstance of corrosion occurs with iron because it is a structural material in construction, bridges, buildings, rail transport, ships, etc. Aluminium is also an important structural metal, but even aluminium undergoes oxidation reactions. However, aluminium doesn't corrode or oxidize as rapidly as its reactivity suggests. Copper (Cu) corrodes and forms a basic green carbonate. <ol style="list-style-type: none"> What is rusting? Which two metals do not corrode easily? Write the chemical name of the compound formed on corrosion of silver. Corrosion is <ol style="list-style-type: none"> a redox reaction a reduction reaction a displacement reaction an oxidation reaction Oxidation is the process of gaining of oxygen, or losing of hydrogen. Reduction is the process of losing of oxygen or gaining of hydrogen. The substance which undergoes oxidation is the reducing agent while the substance which undergoes reduction is known as the oxidising agent. Oxidation and reduction always take place together and these type of reactions are known as redox reactions. Some of the examples of redox reactions are given below: <ol style="list-style-type: none"> $\text{Pb}_3\text{O}_4 + 8\text{HCl} \longrightarrow 3\text{PbCl}_2 + \text{Cl}_2 + 4\text{H}_2\text{O}$ $2\text{Mg} + \text{O}_2 \longrightarrow 2\text{MgO}$ $\text{CuSO}_4 + \text{Zn} \longrightarrow \text{Cu} + \text{ZnSO}_4$ $\text{V}_2\text{O}_5 + 5\text{Ca} \longrightarrow 2\text{V} + 5\text{CaO}$ $3\text{Fe} + 4\text{H}_2\text{O} \longrightarrow \text{Fe}_3\text{O}_4 + 4\text{H}_2$ $\text{CuO} + \text{H}_2 \longrightarrow \text{Cu} + \text{H}_2\text{O}$ <ol style="list-style-type: none"> Give two examples of oxidation reaction from your everyday life. Write the oxidising agent in the reaction III and VI. Which of the following is an oxidising agent?

		<p>(a) LiAlH_4 (b) Alkaline KMnO_4 (c) Acidified $\text{K}_2\text{Cr}_2\text{O}_7$ (d) Both (b) and (c)</p> <p>(iv) Out of oxidation and reduction, which reaction takes place at anode?</p>
6	Biology	<p>1. Alimentary canal of human being plays a very important role for implication of food .It has different parts. Herbivores have longer small intestine as compared to carnivores .Alimentary canal starts from mouth and continue till anus. It is approximately 9 meter muscular tube .Different digestive glands are also involved in this process.</p> <p>a) What is the role of stomach in digestion of food in humans? b) Carnivores have smaller small intestine as that of herbivores .Give reason. c) What is the specific role of salivary amylase in buccal cavity? d) Bile salts secreted by the liver cannot digest the food but yet play a very crucial role in digestion. Explain.</p> <p>2. There is a process which is involved in generation of energy in a cell. This generated energy can be utilized in various metabolic activities of cell. This process can take place both in presence and absence of oxygen.</p> <p>a) Write the name of a process in which energy is generated. b) What product will be formed, if oxygen is not utilized in this process ? c) Mention the term used for the process which is involved in bakery to make baking items. d) Name the components of cell which are involved in complete oxidation of glucose.</p>
7	Social science	<p>1. Analyse the implication of globalization for local economies. (Mention experiential and experimental learning and do it in classwork copy)</p> <p>2. Project work on Sustainable Development (Make it in project file).</p>
8	Information Technology	<p>https://drive.google.com/file/d/1vsr8h-S30hStmobardA8HZmyye2i13Xj/view?usp=sharing</p> <p><u>Note:</u></p> <p>1. Write each assignment in every single page (coding must be written in the line side of the copy and output should be pasted at the blank side of the copy).</p> <p>2. Output of each practical should be in printed form.</p>
9	Artificial Intelligence	<p>https://docs.google.com/document/d/1hzAd_Hi_QuyTn4KT2aNthGRspIKoC4p6/edit?usp=drive_link&oid=112831271073710824663&rtprof=true&sd=true</p> <p><u>Note:</u></p> <p>1. Write each assignment in every single page (coding must be written in the line side of the copy and output should be pasted at the blank side of the copy).</p> <p>2. Output of each practical should be in printed form.</p>
10	Marketing	<p>PRACTICAL FILE / ASSIGNMENT</p> <p>Unit I: Sales with other functions- Introduction to Marketing Mix</p> <p>Prepare a mind map on the four tools of Marketing Mix .</p>

	<p>UNIT: II Market Process Prepare a report on market segmentation of Non-Durable products.</p> <p>Unit-III: Sales Process Suggest a few measures of Handling objections.</p> <p>Unit IV – Careers in Selling Enlist obligations and commitments of salespersons.</p> <p>Unit V – Skills in selling Explain the importance of Effective negotiation skill.</p> <p>PROJECT FILE To prepare a project on marketing mix of an organization.</p> <p>DEMONSTRATION FILE Prepare a demonstration on ‘Closing a sale’</p> <p>Guidelines for Project/ Assignment/ Demonstration :</p> <ul style="list-style-type: none">a) Introduction,b) Identification of core and advance issues,c) Learning and understanding, andd) Observation during the project.e) Conclusion
--	---