

DAV PUBLIC SCHOOL , MCL ,BURLA
SUMMER HOLIDAY HOME WORK
STD - XII (2024-25)

S.No	SUBJECT	Details
1	ENGLISH	<ol style="list-style-type: none"> As the president of the Tourism club of your school, write a notice for your school notice board regarding a trip to South India meant for the students of XI and XII Humanities. Supply all necessary details. (50 words) As the Sports Captain of your school, write a notice regarding the date, venue and timing of the Annual Sports and the maximum no of items that one can participate. (50 words) For the people of a state, what is the importance of the language of the state? What should be done for the enrichment of the language and why the people of every state must protect their language? (120-150 words) Every family has old parents and grand-parents. What are the problems and challenges you think they go through? What can you do to alleviate their suffering? (120-150 words) Attempt a comparison of the living condition and future of Saheb with that of Mukesh. What do you think will happen to their dreams and aspirations in their adulthood? (120-150 words)
2	PHYSICS	<ol style="list-style-type: none"> Work out Exercise and example of Chapter 2 Potential & Capacitance. Solve NCERT Exemplar questions of chapter 1 and 2.
3	BIOLOGY	<ol style="list-style-type: none"> Prepare 3D model of given topics (As per allotted Roll no. wise). Roll No 1 to 7 : Male gametophyte development. Roll 8 to 13 : Female gametophyte development. Roll No 14 to 19 :Double Fertilization. Roll No 20 to 25 :Male Reproductive System. Roll No 26 to 36: Female Reproductive System. Roll No : 37-44 :Menstrual cycle. Complete given CBQ worksheet from chapter Sexual reproduction in flowering plants.
4	CHEMISTRY	<p>A. Complete given worksheet of Chapter 1(Solutions) .</p> <p style="text-align: center;">Questions</p> <ol style="list-style-type: none"> Calculate the mass of a non- volatile solute (molar mass= 40 gmol^{-1}) which should be dissolved in 114 g octane to reduce its vapour pressure to 80%. Assuming complete dissociation of the salts, calculate the molality of NaCl solution whose elevation in boiling point is numerically equal to the depression in freezing point of 0.2 m $\text{Al}_2(\text{SO}_4)_3$ solution in water. (K_b and K_f for water are 0.52 and 1.86 K Kg mol^{-1} respectively). Calculate the freezing point of a solution containing 8.1 g of HBr in 100g of water, assuming the acid to be 90% ionized. Given Molar mass of Br = 80 g/mol, K_f of water = 1.86 K Kg/mol. 0.3 g of acetic acid (M= 60 g/mol) dissolved in 30 g of benzene shows a depression in freezing point equal to 0.45°C. Calculate the percentage association of acid if it forms a dimer in the solution.

		<p>Given: K_f for benzene = 5.12 Kkg/mol.</p> <p>5. A solution containing 1.9 g per 100mL of KCl ($M = 74.5 \text{ gmol}^{-1}$) is isotonic with a solution containing 3 g per 100 ml of urea ($M = 60 \text{ gmol}^{-1}$). Calculate the degree of dissociation of KCl solution. Assume that both the solutions have same temperature.</p> <p>6. Calculate the freezing point of solution when 1.9 g of MgCl_2 ($M = 95 \text{ gmol}^{-1}$) was dissolved in 50g of water, assuming MgCl_2 undergoes complete ionization. ($K_f(\text{water}) = 1.86 \text{ Kkgmol}^{-1}$).</p> <p>7. Determine the osmotic pressure of a solution prepared by dissolving $2.5 \times 10^{-2} \text{ g}$ of K_2SO_4 in 2L of water at 25°C, assuming that it is completely dissociated. ($R = 0.0821 \text{ L atmK}^{-1}\text{mol}^{-1}$, Molar mass of $\text{K}_2\text{SO}_4 = 174 \text{ gmol}^{-1}$).</p> <p>8. A solution prepared by dissolving 8.95 mg of a gene fragment in 35.0mL of water has an osmotic pressure of 0.335 torr. Assuming that the gene fragment is a non-electrolyte, calculate its molar mass.</p> <p>9. A 1.00 molal aqueous solution of trichloroacetic acid (CCl_3COOH) is its boiling point. The solution has the boiling point of 100.18°C. Determine the Van't Hoff factor for trichloro-acetic acid. ($K_b \text{ for water} = 0.512 \text{ Kkgmol}^{-1}$).</p> <p>10. A solution prepared by dissolving 1.25 g of oil of wintergreen (methylsalicylate) in 99.0 g of benzene has a boiling point of 80.31°C. Determine the molar mass of this compound. (B.P. of pure benzene = 80.10°C and $K_b \text{ for benzene} = 2.53^\circ\text{C kg mol}^{-1}$)</p> <p>B. NCERT Exemplar questions (CH-1) Q.No. 51, 52, 53, 54, 58, 59, 60, 61. to be solved.</p>
5	MATHS	<p>1. Answer all the questions of Relations, Functions, ITF, Matrices and Determinants from Exemplar Book</p> <p>2. Write all the mathematical formula from chapters 1,2,3 & 4 of NCERT Book.</p> <p>3. Draw ITF graph.</p> <p>4. Solve Matrices miscellaneous exercise from NCERT Book.</p>
6	COMPUTER SC.	<p>1. Input a string and display all the words in reverse order line by line.</p> <p>2. Write a UDF remove() which accept a list of numbers . Remove all the odd numbers from the list and store in another list . Return both the list and display.</p> <p>3. Write a program to create a list from an existing list of numbers taking only two digits numbers. Display existing and new list.</p> <p>4. Write a program to reverse a list of numbers from the index position entered by the user. Example [5,6,8,7,4,2,1,3] → reverse from index position 3 → [7,4,2,1,3,5,6,8,]</p> <p>5. Write a program to input details of five product details in a dictionary like PID number, product name, price , quantity and display their details in tabular form.</p>

7	PHE	<ol style="list-style-type: none"> 1. Prepare a Project work on IPL (2024) on the basis of combination Tournaments. 2. Revise chapter 1 & 2
8	ACCOUNTS	<ol style="list-style-type: none"> 1. Solve from Ch-1(Fundamentals of Partnership) Q 39,40,41,42,43(NCERT) 2. Solve from Ch-2. (Goodwill Nature & Valuation) Q 13,14,15,16,17(NCERT).
9	B.ST	<ol style="list-style-type: none"> 1. Solve all the case based questions from chapter 1 & 2 of NCERT Book.
10	ECO	<ol style="list-style-type: none"> 1.Solve all the Numerical from Exercise of Chapter National Income of NCERT Book.
11	GEO	<ol style="list-style-type: none"> 1.Explain the Demographic Transition Theory with diagram. 2.Complete the exercise of Chapter (Population; Distribution, Density, Growth and Composition.) from NCERT Book.
12	POL.SC	<ol style="list-style-type: none"> 1.Collect the newspaper clips, stories on the Partition of India and prepare wallpaper on it on a chart paper.
13	SOCIOLOGY	<ol style="list-style-type: none"> 1.Prepare a Synopsis on “Class Conflict and Inequalities in contemporary Indian Society” in 500 words.
14.	MASS MEDIA	<p>All the activities are to be done using A4 Xerox papers.</p> <ol style="list-style-type: none"> 1. Collect five magazine ads in which celebrities are endorsing a product. (Five sheets) 2. Collect two advertisements on ISPs and Search Engines (Two sheets) 3. Through pictures from the net or magazines, show the market segmentation of any one company. 4. Collect three ads on Cross promotion. (Three sheets)
15	BANKING	<ol style="list-style-type: none"> 1. Prepare 5 Short answer type questions & 5 MCQs of Chapter : Self Motivational Skill and answer it.
16	PAINTING	<ol style="list-style-type: none"> 1. Go through in detail Chapter No 1.Rajasthani miniature painting and Chapter No 2 . Pahari miniature painting. 2. Prepare 10 MCQ from each chapters 1 & 2 also answer them.