

DAV PUBLIC SCHOOL MATHURAPUR

Summer Vacation Holiday Homework

SESSION - 2025-26

Class - XI

| SUBJECT | HOME WORK |
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| | CLASS XI H.HW (SUMMER VACATION) |
| ENGLISH | MAKING PROJECT Draw the branches of all TENSES including all 5 types of structures of each with examples on beautiful chart papers for wall decoration of your classroom. Prepare a wall painting describing parts of speech, kinds, its definition and examples in detail. Draw a visual and verbal TLM of anyone of the chapter from your literature book. (Note - topic should not be matched to one another) Draw a beautiful painting of any one of the university Wits and write details on the chart paper. A. Christopher Marlowe B. Robert Greene C. Thomas Nashe D. John Lyly E. Thomas Lodge F. George peele G. Thomas kyd ASSIGNMENT Update your English Notebook with summary and exercises. Read out and understand the chapter & Topic in Advance. A. Discovering Tut :The saga continues (Hornbill) B. Landscape of the soul (Hornbill) C. Ranga's Marriage (Snapshots) D. Albert Einstein at school (Snapshots) |
| PHYSICAL EDUCATION | complete exercise of chapter 1,2&3 previous year QP 2024&25 project in stick file (8 elements of Yoga) |
| MATHS | Create a poster or presentation that visually demonstrates different types of relations and functions. You could use graphs, diagrams, or tables to illustrate the relationships between input and output values. |

| | Solve given pdf in WhatsApp group |
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| | PHYSICS HHW – CLASS XI |
| | A.Do the exercise questions of chapter – 1 (units and measurement) from NCERT |
| | book. B Solve the following practice questions from 1 to 20 |
| PHYSICS | 1 Differentiate the following : |
| | a $2x^2+4x+1$ b $3x^3+x^2+7x+11$ c $7x^4+3x^2+5$ |
| | 2 Name four fundamental forces in nature |
| | 2. Name four fundamental forces in hature. |
| | 5. Round on the following to 5 significant lightes. 25,206 b 0.002502 c 1.25022 d 2.2105 c 7.0542 |
| | a. 25.290 D. 0.005505 C. 1.25052 U. 2.5195 C. 7.9545 |
| | 4. Subtract 3.4 x 10-5 from 1.25 x 10-4 with due regard to SF. |
| | |
| | $0.000303, 30000, 3.4 \times 104, 7000.0, 3.3400 \times 1.0002$ |
| | 6. Check the correctness of given expressions by dimensions method : |
| | V = u + at, $s = ut + 1/2at2$ & $V2 = u2 + 2as$ |
| | 7. Write the dimensions of following physical quantities: |
| | Speed, acceleration, force, work, power, energy, acceleration due to gravity, universal |
| | gravitational constant (G), voltage and resistance. |
| | 8. Find the dimensions of a/b in the relation P = $ax + bt2$, where P is pressure, x is |
| | distance and t is time. |
| | 9.Using the method of dimensions, derive the formula for the time period T of a simple pendulum. Assume the time period depends on: Length of the pendulum(I) & |
| | Acceleration due to gravity(g). |
| | 10.Convert 1 joule = ergs, by using the methods of dimensions. |
| | 11.Integrate the following: |
| | a) X2 +5x +2 b) x3 +5x +22 |
| | 12.Define 1-D, 2-D & 3- D motion with the help of examples of each. |
| | 13.Derive 3 equations of motion by calculus method. |
| | 14.Define the following with suitable examples: |
| | Uniform motion, non-uniform motion, uniform acceleration and non- uniform |
| | acceleration. |
| | 15.Differentiate between a) distance & displacement b) speed & velocity |
| | 16. The displacement of a particle is related to time by the equation $s = (3t3+2t2+6t+)$ |
| | 11) m. Find velocity and acceleration of a particle at 3 sec and from 0 to 3 sec. |
| | 17.Draw s-t, v-t & a-t graphs of the situation of free fall. |
| | 18.Explain the following: |
| | a. Astronomical unit b. light year c. angstrom d. parsec |
| | 19. The velocity of a car changes from 36 km/h to 90 km/h in 20 sec. calculate |
| | acceleration produced, distance travelled in the given duration and distance covered in 15th sec |
| | 20 Draw distance-time and velocity-time graphs for following situations |
| | a. Body at rest b. uniform motion c. uniform acceleration |

| | Class XI HHW of chemistry |
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| | A) Assignment:- |
| CHEMISTRY | Q1. A sample of a compound contains 4.8 g of oxygen and 1.2 g of carbon. Find the |
| | empirical formula of the compound. |
| | |
| | (C_2H_6) ? |
| | |
| | Q3. Calculate the amount of water (in grams) produced when 8.0 g of hydrogen gas |
| | reacts with excess oxygen. |
| | Q4. State and explain the Law of Multiple Proportions with a suitable example. |
| | Q5. Two oxides of a metal contain 69.5% and 77.5% metal respectively. Show that |
| | these data illustrate the law of multiple proportions. |
| | Q6. 10 g of calcium carbonate is reacted with 10 g of HCI. Identify the limiting reagent |
| | and calculate the mass of CaCl₂ formed. |
| | Q7. In a reaction, 6.0 g of product was obtained, whereas the theoretical yield was 10 |
| | g. Calculate the percentage yield. |
| | Q8 Calculate the molarity of a solution prepared by dissolving 5.0 g of NaOH in 250 |
| | mL of solution. |
| | |
| | Q9. How many grams of NaCI are present in 500 mL of 0.2 M NaCI solution? |
| | Q10. Calculate the number of molecules in 5 g of CO ₂ . |
| | B) All the important terms of Chapter 1 |
| | C) Write different laws concern to basic concepts of chemistry from Chapter 1 |
| | D) Write all the intext and exercise question answer of Chanter 1 in chemistry fair |
| | notebook book,if not completed yet |
| | |
| | E) Read Chapter - structure of atom in advance |
| | |
| | Class 11 |
| BIOLOGY | Subject - Biology |
| | Assignment (1) Complete the notebook |
| | (2) Read chapter 4 (Animal kingdom) in advance. |
| | (3). Try to answer these chapter based questions and make a |
| | separate copy for it. |
| | |

| Ch-1 (The Living World) |
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| Name various hierarchies of categories with one basis of their formation. Why is phylogenetic system better than artificial system? What is the binomial system of naming organisms ?Give one example. |
| 4. Why are living organisms classified? 5. Define taxon .Give some Examples of taxa at different hierarchical levels 6. Expand ICZN 2 |
| 7. What is the lowest category of classification?8. Brinjal and potato belongs to same genus but different species . What separates the |
| two species? Ch -2 (biological classification) 1. Discuss how classification system have undergone several changes over a period |
| of time . 2. How do lichens reproduce ? 3. How is diatomaceous earth formed? |
| 4. Give reasons for the following a. Red tides in sea b. Viruses cannot be termed living or pop living |
| 5. What kind of nutrition and life cycle is found in kingdom plantae ? What are mycoplasma? Give the significance of retroviruses. 6. Why are cyanobacteria used in agriculture fields for crop improvement? |
| 7. Why do polluted water bodies have an abundance of Nostoc and oscillatoria?8. Explain the myth of fairy rings created by the mushrooms after heavy rains in the forest. |
| 9. What is the sexual cycle in kingdom fungi? 10. Neurospora - an ascomycetes fungus has been used as a biological tool to understand the mechanism of plant genetics much in the same way as Drosophila has been used to study animal genetics. What makes Neurospora so important as a genetic tool? |
| Ch- (plant kingdom) 1. What do pyrenoids contain? 2. When and where does meiosis take place in liverworts and fern? 3. What are the changes that occur after fertilisation in angiosperms? 4. Explain briefly the following terms with suitable examples a. Protonema b. Antheridium c. Diplontic life cycle 5. A seed contains three generations.Explain. |
| 6.What is alternation of generations? |
| 7. Name one non-vascular cryptogam. |
| 8. Which group of plants is called 'amphibians of the plant kingdom'? Why |
| 9. Distinguish between: |
| a) Algae and Fungi |
| |

| 10. Describe the three main types of algae with one example each. |
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| 11. What are the characteristics of pteridophytes? |
| 12. Describe the life cycle of a bryophyte with a well-labeled diagram. |
| Project work - 1 . Prepare a scrapbook on animal phylum and write 5 features about it. 2. Make a model of stages of mitosis. |