HOLIDAYS' HOMEWORK

CLASS- 11th (Non-Medical)

SUBJECT	HOMEWORK

ENGLISH	Note: Question No. 1 to Question No. 3 are to be done in fair register.
	
	HORNBILL:
	
	Q1 In the chapter **'The Portrait of a Lady'** the author shared a different kind of relationship with his grandmother. What kind of a relationship do you share with your grandparents? Write in detail. **(80 words)**
	
	Q2 The chapter **'We are not Afraid to Die……'** shows the exceptional courage of a family on the sea. Even the children Jonathan and Sue behaved maturely. Share any such incident of your life where you were also bound in a situation, handled it perfectly and came out of it untouched.
	
	Q3 Who was **Tutankhamun**? Write in detail about his life history in about 100 words.
	
	WRITING SECTION:
	
	Q4 **Sony Channel is going to conduct AUDITIONS for INDIAN IDOL in your city. Create an attractive poster announcing the auditions.**
	
	    You should include the following points in your poster:
	
	    • Date, Timings and Venue for the auditions
	    • Judges
	    • Eligibility Criteria for the Participation
	    • Types of Songs
	    • Process of Registration
	
	    Draw the POSTER on any sheet available at home.
	
	Q5 You wish to sell your old motorcycle. Draft a suitable classified **ADVERTISEMENT** putting the motorcycle on sale. Do include all the necessary details. **(to be done in Grammar notebook)**

MATHS	**Q1** Complete Chapter-1 (Sets) in fair register.
	
	Q2 Do all examples of Chapter-1 in fair register.
	
	Q3 Represent different set theoretic operations using Venn-Diagram practically with the help of papers available.
	
	Q4 **Learn and write the following on any sheet(s) available at your home:**
	
	    a) Properties of Union of sets
	    b) Properties of Intersection of sets
	    c) Properties of Complement of sets
	    d) Properties of Difference of sets
	
	Q5 **MATHEMATICAL ACTIVITY**: Read thoroughly Chapter-14 (Mathematical Reasoning). Prepare a project on any sheet(s) available at your home and elaborate the following points with examples :
	    a) Sentence
	    b) Statement
	    c) Simple and compound statement

	d) Negation of a statement
	e) Implication
	f) Conditional and Biconditional statement
	g) Converse and contrapositive
	h) Quantifiers
	i) Validating Statements by direct, contrapositive and contradiction Method

PHYSICS

Q1 Revise and complete the **Assignment No. 1** to **Assignment No. 6** provided by the School of **Chapter-2 (UNITS AND MEASUREMENT)** in Physics fair register.

Q2 Read **Chapter-2 (UNITS AND MEASUREMENT)** full and **Chapter-3 (MOTION IN A STRAIGHT LINE)** till kinematic equations for uniformly accelerated motion, thoroughly and prepare internals for test.

Q3 Do all NCERT solved examples of **Chapter-2 (UNITS AND MEASUREMENT) Example No. 2.1 to Example No. 2.17** in Physics fair register.

Q4 Read **Chapter-5 (LAWS OF MOTION)** thoroughly and prepare a detailed **PROJECT (on any sheet(s) available at home)** comprising of following topics:

    (a) Newton's laws of motion with concept of inertia and impulse.

    (b) Law of conservation of linear momentum.

    Note: Give relevant examples in each case.

Q5 **Solve the following questions on any sheet(s) available at home:**

    (a) The surface tension of water is 72 dyne/cm. Express it in SI units.

    (b) The frequency (n) of an oscillating drop may depend upon radius (r) of the drop, density (d) of liquid and the surface tension (S) of the liquid. Deduce the formula dimensionally.

    (c) If the fundamental quantities are velocity (v), mass (M), time (T) what will be the dimensions of coefficient of viscosity (η) in the equation $V=\dfrac{\pi p r^4}{8l\eta}$ where p is pressure, r is radius, V is rate of flow of liquid and l is length.

    (d) In an experiment to measure focal length of a concave mirror, the values of focal length in successive observations are 17.3 cm, 17.8 cm, 18.3 cm, 17.9 cm and 18.0 cm. Calculate mean absolute error and percentage error. Express the result in a proper way.

    (e) To measure radius of curvature of a convex mirror using a spherometer, it was found that l = (4.4 ± 0.1) cm and h = (0.085 ± 0.001) cm. Calculate the maximum possible error in the radius(R) of curvature. **(Given R =$\dfrac{l^2}{6h}$ +$\dfrac{h}{2}$)**

CHEMISTRY

NOTE: Question No. 1 to Question No. 4 are to be done in fair notebook/ register.

Q1 Prepare notes of Chapter-1 **(SOME BASIC CONCEPTS OF CHEMISTRY)** from the power point presentation sent by the school.

Q2 Solve NCERT In-text & exercise questions of Chapter-1 **(SOME BASIC CONCEPTS OF CHEMISTRY)**.

Q3 **Tick (✓) the correct option.**

    (i) **Which of the following terms are unitless?**

        (a) Molality   **(b)** Molarity   **(c)** Mole fraction   **(d)** Mass percent

(ii) 16 g of Oxygen has same number of molecules as in :

    (a) 16 g of CO   **(b)** 28 g of N_2 **(c)** 14 g of N_2 **(d)** 1.0 g of H_2

(iii) Which of the following solutions have the same concentration?

    (a) 20 g of NaOH in 200 mL of solution   **(c)** 40 g of NaOH in 100 mL of solution

    (b) 0.5 mol of KCl in 200 mL of solution   **(d)** 20 g of KOH in 200 mL of solution

(iv) What is the mass percent of carbon in carbon dioxide?

    (a) 0.034%   **(b)** 27.27%   **(c)** 3.4%   **(d)** 28.7%

(v) The empirical formula and molecular mass of a compound are CH_2O and 180 g respectively. What will be the molecular formula of the compound?

    (a) $C_9H_{18}O_9$ **(b)** CH_2O **(c)** $C_6H_{12}O_6$ **(d)** $C_2H_4O_2$

Q4 In the following questions, a statement of ASSERTION (A) followed by a statement of REASON (R) is given. Choose the correct option out of the choices given below.

    (a) Both A and R are true and R is the correct explanation of A.   **(c)** A is true but R is false.

    (b) Both A and R are true but R is not the correct explanation of A.   **(d)** Both A and R are false.

(i) ASSERTION (A) : Significant figures for 0.200 is 3 whereas for 200 it is 1.

    REASON (R): Zero at the end or right of a number are significant provided they are on the right side of the decimal point.

(ii) ASSERTION (A) : One atomic mass unit is defined as one twelfth of the mass of the one carbon-12 atom.

    REASON (R): Carbon-12 isotope is the most abundant isotope of carbon and has been chosen as standard.

(iii) ASSERTION (A): The empirical mass of ethene is half of its molecular mass.

    REASON (R): The empirical formula represents the simplest whole number ratio of various atoms present in a compound.

(iv) ASSERTION (A): Pure water obtained from different sources always contains hydrogen and oxygen in the ratio of 1:8 by mass.

    REASON (R): Molecular mass of water is 18.

(v) ASSERTION (A): The sum of 154.2 + 6.1 + 23 is 183.

    REASON (R): The result of addition is reported to the same number of decimal places as that of the term with least number of decimal places.

Q5 Prepare a PROJECT on Chapter-14 **(Environmental Chemistry) (on any sheet(s) available at home)**.

INFORMATICS PRACTICES	

> **NOTE: Question No. 1 to Question No. 5 are to be done in fair notebook/ register.**

ANSWER THE FOLLOWING QUESTIONS:

Q1 Draw the block diagram of a computer system. Briefly write about the functionality of each component.

Q2 What are the security threats involved when we throw away electronic gadgets that are non-functional?

Q3 Five friends plan to try a startup. However, they have a limited budget and limited computer infrastructure. How can they avail the benefits of cloud services to launch their startup?

Q4 Governments provide various scholarships to students of different classes. Prepare a report on how block chain technology can be used to promote accountability, transparency and efficiency in distribution of scholarship?

	Q5 If government plans to make a smart school by applying IoT concepts, how can each of the following be implemented in order to transform a school into IoT enabled smart school? a) e-textbooks b) Smart boards c) Online tests d) Wifi sensors on classrooms doors e) Sensors in buses to monitor their location f) Wearables (watches or smart belts) for attendance monitoring

PHYSICAL EDUCATION	**NOTE: All the questions are to be done in fair notebook/ register.**
	
	 Q1 Define the following :
	
	     (a) Physical Education
	
	     (b) Physical Fitness
	
	     (c) Wellness
	
	     (d) Lifestyle
	
	 Q2 Elaborate the various career options through Physical Education.
	
	 Q3 Explain briefly the procedure and benefits of any four Yoga Asanas.
	
	 Q4 Explain the following in detail:
	
	     (a) Rock climbing
	
	     (b) Mountaineering
	
	     (c) Trekking
	
	     (d) River rafting
	
	     (e) Surfing
	
	     (f) Paragliding
	
	 Q5 **(a)** Brief the participation of our country in Rio Olympics 2016.
	
	     (b) What is the effect of COVID-19 on Olympics 2020?
	
	     (c) Prepare a list of countries who have hosted the Olympics till date. Start your list from 1896

IMPORTANT FOR PARENTS TO NOTE

- **Parents are not to do the homework on behalf of their ward.**

- **The work done by your ward shall be graded.**

- **If the teacher feels that the work has been done by the parents, it shall be disqualified.**