HOLIDAYHOMEWORK

CLASS:X   **DATE: 06.05.2024**

S.NO.	SUBJECT	Holiday Homework	Project Work
1.	ENGLISH	**ENGLISH** **(Mrs. POONAM CHOUDHARY & Ms. PRIYANKA KUMARI)** 1.A TRAVEL BROCHURE (To be written in English holiday homework notebook) Do research on FAMOUS ARCHITECTURAL STRUCTURES(any 3 – 4 Religious Places) of Jharkhand .Prepare a travel brochure describing them. You can use the following guide lines to make your brochure informative and attractive (with pictures). 1) Name of the religious places 2) Location 3) How to get there 4) Architectural details 5) Historical background 6) Best time to visit 2.Movie Review:-(To be written in English holiday homework Notebook) a) Watch the movie "Inside Out". b) Write the synopsis of the movie. c) Describe all the five emotions shown in the movie-joy, sadness, anger, disgust and fear. • Name of the character(emotion) • Physical appearance. • Role played by the character in the	

		movie. d) Which is your favourite character and why? 3.PORTFOLIO: PREPARE A PORTFOLIO WITH THE FOLLOWING– (Prepare a file with A4 size sheets) • Introduction • My strengths • I need to improve on… • My achievements • I have participated in… • The books I have read • The book I wish to read	
2.	**HINDI**	**HINDI (Mrs. Purnima Singh)** I. सूरदास अथवा गोस्वामी तुलसीदास का जीवन परिचय दिए गए संदर्भों के आधार पर दे : a) परिचय ,प्रमाणपत्र b) अभिस्वकृति, अनुक्रमणिका (INDEX) c) जीवन परिचय d) साहित्यिक परिचय e) बचपन, प्रमुख रचनाएँ f) भाषा शैली g) गुरु h) मृत्यु i) सन्दर्भ ग्रन्थ सूची	

3.	MATHS	Maths (Mr. Aakash Kumar & Mr. Ujjwal Pratap)	

Maths (Mr. Aakash Kumar & Mr. Ujjwal Pratap)
- **In the lab manuals**
  Write down the following activities

Activity	Activity Name	objective
No. 1	System of linear equations)	To obtain the conditions for consistency of a system of linear equations in two variable by graphical method
No. 2	(Arithmetic progression)	To verify that the given sequence is an arithmetic progression by paper cutting and pasting method
No. 6	(Basic proportionality theorem for triangle	To verify the basic proportionality theorem using parallel line board and triangle cutouts
No. 21	Tangent to a circle at a paint on it	To verify using the method of paper cutting, pasting and folding that the lengths of tangent drawn from an external point are equal.
No. 23	Right circular cylinder	To make a right circular cylinder of given height and circumference of base
No. 32	(center of circle)	To find the center of a circle by paper folding)
No. 34	Use of height sight	To measure height of tail object

4.	SCIENCE	**Biology : (Md. Manzar Alam)**	

Biology : (Md. Manzar Alam)

Assignment

Practical work: Write in 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 work:

1. Write the secretions and functions in case of humans :
    a. Salivary gland
    b. Gastric gland
    c. Liver
    d. Pancreas
3. What are the different ways in which glucose is oxidised to provide energy in various organisms?
4. What are the components of the transport system in man? Write the functions of each component.

Note: Make a model in in any one of the following.
    a. Human alimentary canal
    b. Respiratory system
    c. Circulatory system- Heart
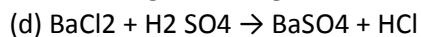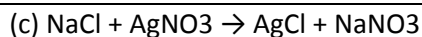
Physics: (R.R.Prasad)

BOOK NCERT (LATEST EDITION)

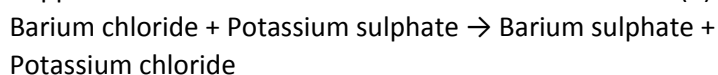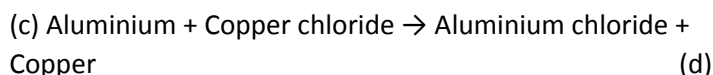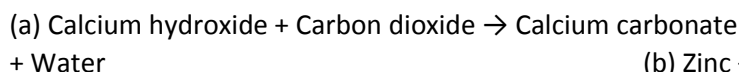| PAGE NO	QUESTION NO.
174	1,2,3
180	EXAMPLE 11.4, 11.6
181	QUESTION 1,2,4
184	EXAMPLE 11.7
185	Q.NO 01
186	EXAMPLE 11.8
188	QUESTION 3,4,5
193	EXCECISE 1,4,5
194	EXERCISE Q.NO 18 (C,D,E)

Chemistry : (Mr. Ajeet Kumar Jha)

1. Why should a magnesium ribbon be cleaned before burning in air?

2. Write the balanced equation for the following chemical reactions.
   (i) Hydrogen + Chlorine → Hydrogen chloride
   (ii) Barium chloride + Aluminium sulphate → Barium sulphate + Aluminium chloride   (iii) Sodium + Water → Sodium hydroxide + Hydrogen

3. Write a balanced chemical equation with state symbols for the following reactions.   (i) Solutions of barium chloride and sodium sulphate in water react to give insoluble barium sulphate and the solution of sodium chloride.

(ii) Sodium hydroxide solution (in water) reacts with hydrochloric acid solution (in water) to produce sodium chloride solution and water
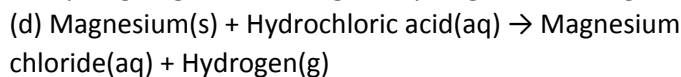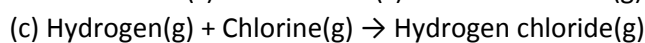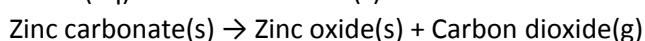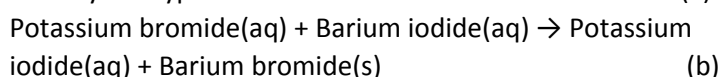
4. A solution of a substance 'X' is used for whitewashing.
    (i) Name the substance 'X' and write its formula.
    (ii) Write the reaction of the substance 'X' named in (i) above with water. 2. Why is the amount of gas collected in one of the test tubes in Activity 1.7 double of the amount collected in the other? Name this gas.

5. Why does the colour of copper sulphate solution change when an iron nail is dipped in it? 2. Give an example of a double displacement reaction other than the one given in Activity 1.10.

6. Identify the substances that are oxidised and the substances that are reduced in the following reactions.
    (i) $4Na(s) + O_2 (g) \rightarrow 2Na_2O(s)$
    (ii) $CuO(s) + H_2 (g) \rightarrow Cu(s) + H_2O(l)$

7. Which of the statements about the reaction below are incorrect?
    $2PbO(s) + C(s) \rightarrow 2Pb(s) + CO_2 (g)$
    (a) Lead is getting reduced.
    (b) Carbon dioxide is getting oxidised.
    (c) Carbon is getting oxidised.
    (d) Lead oxide is getting reduced.
    (i) (a) and (b) (ii) (a) and (c) (iii) (a), (b) and (c) (iv) all

8. $Fe_2O_3 + 2Al \rightarrow Al_2O_3 + 2Fe$ The above reaction is an example of a   (a) combination reaction. (b) double displacement reaction.(c) decomposition reaction. (d) displacement reaction.

9. What happens when dilute hydrochloric acid is added to iron fillings? Tick the correct answer.   (a) Hydrogen gas and iron chloride are produced.
    (b) Chlorine gas and iron hydroxide are produced.
    (c) No reaction takes place.
    (d) Iron salt and water are produced.

10. What is a balanced chemical equation? Why should chemical equations be balanced?

11. Translate the following statements into chemical equations and then balance them.   (a) Hydrogen gas combines with nitrogen to form ammonia.
    (b) Hydrogen sulphide gas burns in air to give water and sulpur dioxide.   (c) Barium chloride reacts with aluminium sulphate to give aluminium chloride and a precipitate of barium sulphate.
    (d) Potassium metal reacts with water to give potassium hydroxide and hydrogen gas.

12. Balance the following chemical equations.
    (a) $HNO_3 + Ca(OH)_2 \rightarrow Ca(NO_3)_2 + H_2O$
    (b) $NaOH + H_2SO_4 \rightarrow Na_2SO_4 + H_2O$

(c) $NaCl + AgNO_3 \rightarrow AgCl + NaNO_3$
(d) $BaCl_2 + H_2SO_4 \rightarrow BaSO_4 + HCl$

13. Write the balanced chemical equations for the following reactions.
(a) Calcium hydroxide + Carbon dioxide → Calcium carbonate + Water (b) Zinc + Silver nitrate → Zinc nitrate + Silver
(c) Aluminium + Copper chloride → Aluminium chloride + Copper (d) Barium chloride + Potassium sulphate → Barium sulphate + Potassium chloride

14. Write the balanced chemical equation for the following and identify the type of reaction in each case. (a) Potassium bromide(aq) + Barium iodide(aq) → Potassium iodide(aq) + Barium bromide(s) (b) Zinc carbonate(s) → Zinc oxide(s) + Carbon dioxide(g)
(c) Hydrogen(g) + Chlorine(g) → Hydrogen chloride(g)
(d) Magnesium(s) + Hydrochloric acid(aq) → Magnesium chloride(aq) + Hydrogen(g)

15. What does one mean by exothermic and endothermic reactions? Give examples.

16. Why respiration is considered an exothermic reaction? Explain. 11. Why are decomposition reactions called the opposite of combination reactions? Write equations for these reactions.

17. Write one equation each for decomposition reactions where energy is supplied in the form of heat, light or electricity.

18. What is the difference between displacement and double displacement reactions? Write equations for these reactions.

19. In the refining of silver, the recovery of silver from silver nitrate solution involved displacement by copper metal. Write down the reaction involved.

20. What do you mean by a precipitation reaction? Explain by giving examples.

21. Explain the following in terms of gain or loss of oxygen with two examples each. (a) Oxidation (b) Reduction

22. A shiny brown coloured element 'X' on heating in air becomes black in colour. Name the element 'X' and the black coloured compound formed.

23. Why do we apply paint on iron articles? 19. Oil and fat containing food items are flushed with nitrogen. Why?

Explain the following terms with one example each. (a) Corrosion (b) Rancidity

5.	SOCIAL STUDIES (087)	**SOCIAL STUDIES (Mr. Arvind Kumar)**
		   1. **Flash Card Making :**
		      Topic : Bangar Soil and khaddar soil
		   2. **Define**
		      A. **Sustainable development**
		      B. **Potential resources / biotic and Abiotic resources**
		      C. **Majotarianism**
		      D. **Soil Erosion**
		   3. **What is the criterion used by the UNDP (United Nation Development Project) for classifying countries? Mention the recent HDI ranking of India.**
		     Or
		     "Girls in india in the rural sector are something not able to get secondary level education. "give three reasons for the statement.
		     Or
		     Why is the issue of sustainability important for development?
		     (for above question use file paper)
		
		   4. **Poster Making :**
		     Topic : Geographical and ethnic composition of Belgium and Sri Lanka
		
		     How to submit : (keep all the above effort in a hand made folder file. Mention name, class, section, session, name of subject
			1).
			Materials used : colour chart paper**paper size :** 4''/6''
			
			4).
			Materials for use : Bit chart paper / card board (white or color)
			Size : Post Card

6.	SANSKRIT	**SANSKRIT (Mrs. Sonam)** 1. दश नितिश्लोक अर्थ सहित लिखे 2. गीता के अध्याय - 4 से किन्ही पांच श्लोको को लिखे तथा अर्थ को बताएँ	Stick फाइल में बनाएँ
7.	COMPUTER A.I (417)	<u>**COMPUTER (A.I - 417)**</u> <u>**Mr. Narayan Chandra Mahato**</u> **1.** What is Artificial Intelligence? Write the advantage and disadvantage of A.I **2.** Go to Google -> Search about best platform or application to perform A.I, Write few point and paste image if any. **3.** How A.I is helpful in our daily life. Write few points, paste diagram if any. **4.** What is flowchart? Draw the flowchart to	1. Draw the flowchart to find greatest among two numbers. 2. Draw the flowchart to calculate sum of three number

		find greatest among two numbers. 5. Write an algorithm to find greatest among two numbers. 6. Write a program in python to multiply two numbers. 7. Briefly explain about different execution modes in python. 8. What is active listening? Explain with diagram **(Note: All the above holiday homework writes on A4 size paper with stick file, index page. Write the topic with proper page number.)**	**(Above work done using chart paper)**