



**SANT NISCHAL SINGH PUBLIC SCHOOL
LADWA**



HOLIDAYS' HOMEWORK

SESSION 2022-23

CLASS X





Dear Parents

Vacation is a welcome break !

So why not utilize this golden period for family reunion and reiterate your family ties with your kids and relatives. Gear up and utilize your time in the best possible manner. Go ahead with some unique fun activities with your kids. Let's cheer for the 3R's- Rejuvenation, Relaxation and Rebonding ! Have atleast two meals together with your children. Teach them the importance and hardwork of the farmers and art them not to waste food.

Special Note

Visit your grand parent and strengthen your bond with them. Their love and emotional support is very important click snaps with them.

GUIDELINES FOR HOLIDAYS' HOMEWORK

Label your Holiday Homework and submit it in a handmade folder, put in an eco-friendly paper bag made by you using old newspaper/ colourful papers. Revise the work done till the month of May.

Here are few tips for you to follow :-

- Set a permanent workplace and work-time. This will bring discipline in your life.**
- Inculcate good manners – 4 magic words `Please, Thank you, Excuse me, Sorry' – Use them and see the difference.**
- Help your mother to keep the house clean. Do small household jobs like dusting, watering the plants, laying dinner table and so on.**
- Go out for morning walk, talk about things you see around.**
- Keep your room clean and well organized.**
- Take up yoga or any other form of healthy activity during the vacation.**
- Last but not the least – Always speak in English with your family members and friends.**



ENGLISH HOMEWORK

1. Do the following work in your BBC

Reading Module- Complete (1-10) Passages.

2. Writing Module-(Formal letter Module) Write (1-5) letters from Additional Practice Task.

3. Listening & Speaking Module- Complete Pages (492 – 507) from listening Module.

4. literature Module- Complete objective & short questions answers exercises of literature chapters done in class .

5. Creation with Proverb- Describe any of the following Proverb in your own words .You should also add pictures to make it attractive. (Use A-4 Activity Sheets)

- The Pen is mightier than sword.
- No pain no gain
- All's well that ends well



HINDI HOMEWORK

Revise all syllabus done in class.

Do all this work on A4 sheet.

प्रश्न-1 100 शब्दों में अनुच्छेद लिखिए ।

(क) ग्लोबल वार्मिंग : मनुष्यता के लिए खतरा

प्रश्न- 2 निम्नलिखित विषयों पर लगभग 50 शब्दों में आकर्षक विज्ञापन तैयार कीजिए ।

(क) किसी प्रसिद्ध कंपनी की लगजरी कार के लिए विज्ञापन बनाइए।

(ख)कोचिंग सेंटर के लिए विज्ञापन बनाइए।

प्रश्न-3 (क) आपके क्षेत्र में चारों ओर गंदगी फैली रहती है, इसकी शिकायत करते हुए जल अधिकारी को पत्र द्वारा सूचित कीजिए ।

प्रश्न-4 समास के सभी पदों के पांच पांच उदाहरण विग्रह सहित लिखिए।



MATHS HOMEWORK

ASSIGNMENT:

CHAPTER – 1 ,2 ,3 ,4, 7 ,

1 Find the LCM and HCF of the 336 and 54 and verify that $LCM \times HCF =$ product of two numbers .

2 If one of the zero of the polynomial $x^2 - 4x + 1$ is $2 + \sqrt{3}$, find the other zero.

3 Find the quadratic polynomial the sum and the product of whose zeros are 0 and $-\sqrt{2}$.

4 Find the zeros of the quadratic polynomial $9t^2 - 6t + 1$ and Then verify the relationship between the zeros and the coefficients .

5 Find all zeros of the quadratic polynomial $\sqrt{3}x^2 - 8x + 4\sqrt{3}$.

6 If the zeroes of the quadratic polynomial $x^2 + (a+1)x + b$ are 2 and -3 , then find the value of a and b.

7 Find the value of the K so that the following system of equations has no solution

$$.3x - y - 5 = 0$$

$$6x - 2y + k = 0$$

8 Find weather the following pair of linear equations are consistent or inconsistent

$$3x + 2y = 8 , 6x - 4y = 9$$

9 For what value of the K will the following A pair of linear equations have infinitely many solutions

$$(P - 3)x + 3y = p; \quad px + py = 12$$

10 $7x - 5y - 4 = 0$ is given. Right another linear equation so that lines represented by the pairs are

- 1) intersecting. 11) coincident. 111) parallel

11 Check whether the following are quadratic equations

- 1) $(x+1)^2 = 2(x-3)$
2) $(x-2)(x+1) = (x-1)(x+3)$

12 Find the roots of the following quadratic equation by factorization

- 1) $9x^2 + 15x + 10 = 0$
2) $11x^2 - 49x - 30 = 0$
3) $x^2 + 2\sqrt{x} + 1 = 0$
4) $4x^2 - 4a^2x + (a^4 - b^4) = 0$
5) $12abx^2 - (9a^2 - 8b^2) - 6ab = 0$

13 Find the roots of the quadratic equation by applying the quadratic formula

- 1) $2x^2 + x - 528 = 0$
2) $x^2 - 3x - 4 = 0$
3) $x^2 + 48x - 324 = 0$
4) $2x^2 - 2\sqrt{2}x + 1 = 0$
5) $\sqrt{3}x^2 + 10x + 7\sqrt{3} = 0$

14 Find the nature of the roots of the quadratic equation

$\sqrt{3}x^2 - 2\sqrt{2}x - 2\sqrt{3} = 0$. If the real roots exist, find them.

15 Find the value of the k for the following quadratic equation, so that it has two equal roots

$$x^2 - 2x(1+3k) + 7(3+2k) = 0$$

16 The numerator of a fraction is 3 less than denominator. If 2 is added to both numerator as well as denominator, the sum of the new and the original fraction is $\frac{29}{20}$. find the fraction.

17 A plane left 30 minutes later than the scheduled time and in order to reach its destination 1500 kilometer away in time , it has to increase itsit. Alsoed by 250 km/hr from it's usual speed . find its usual speed.

18 Rs 6500 were divided equally among in certain number of persons. had there been 15 more persons , each would have got Rs30 less . Find the original number of persons .

19

Solve the above quadratic equation

$$\frac{x + 3}{x - 2} - \frac{1 - x}{x} = \frac{17}{x}$$

20 Find the distance between

- 1) $(a-b, a+ b)$ and $(-a -b, a - b,)$
- 2) (a, a) and $(-\sqrt{3}a, \sqrt{3}a)$

21 Find the ratio in which point

$p(-1, y)$ lying on the line segment joining points $A(-3,10)$ and $B(6,-8)$ divide it. Also , find the value of y .

22 find the centeroid of ΔABC in which vertices are $(1,2)$, $(3,7)$ and $(5,3)$

PROJECT :

1 Make Maths Magazine minimum of pages 10.

2 From three - four statements of your surrounding situations which are related to linear equations of two variables and solve them also.



LAB ACTIVITIES :

1 To find coordinates of points bandage metrical figure is preferred by moving 7 units down and 5 units to the left.

2 To get familiar with the idea of probability of an event through a double color card activity



SCIENCE HOMEWORK

❖ Prepare the working model on the assigned topic.

1. Biogas plant
2. Hand Generator
3. Heart
4. Kidney
5. Lungs
6. Projector
7. Rain detector
8. Optical box
9. Digestive system
10. Cotton candy Machine
11. Electric Motor
12. Periscope
13. Biogas Plant
14. Water Alarm
15. Earthquake alarm
16. Wind Turbine

You can also prepare model on any other innovative idea.

- ❖ Do the given assignment in notebook.
- ❖ Revise the following Chapters for periodic test

Science Assignment Holidays Homework

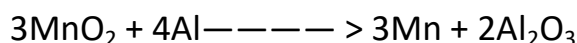
Light- Reflection and Refraction

1. What are laws of reflection? Draw neat and clean diagram.
2. What are types of mirror?
3. What do you mean by converging and diverging mirror?
4. What are rules of making ray diagram with mirror?

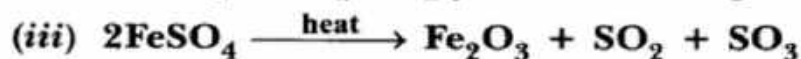
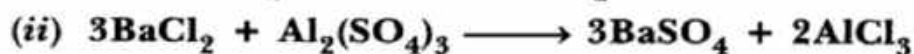
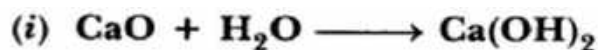
5. Draw all the ray diagrams of convex and concave mirror for different position of object.
6. Define Snell's law.
7. What is Refractive index? What is unit of Refracting index?
8. What do you mean by converging and diverging Lens?
9. What are rules of making ray diagram with Lens?
10. Draw all the ray diagrams of convex and concave Lens for different position of object.

Chemical equation and Reaction

1. Name the reducing agent in the following reaction:

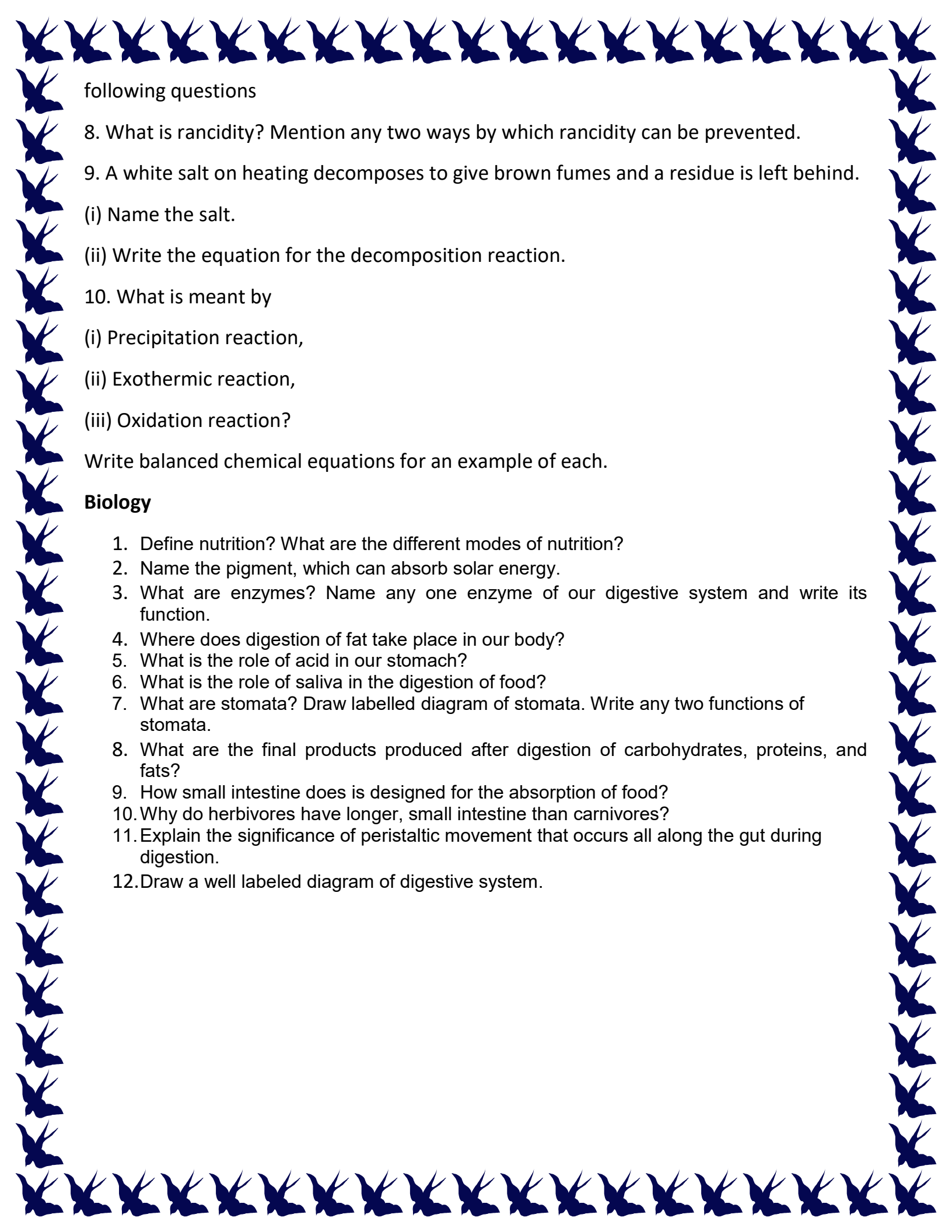


State which is more reactive, Mn or Al and why?



2. Name the type of chemical reaction represented by the following equation:
3. State the type of chemical reactions and chemical equations that take place in the following:
 - (i) Magnesium wire is burnt in air.
 - (ii) Electric current is passed through water.
 - (iii) Ammonia and hydrogen chloride gases are mixed.
4. What is observed when a solution of potassium iodide solution is added to a solution of lead nitrate? Name the type of reaction. Write a balanced chemical equation to represent the above chemical reaction.
5. Describe an activity to observe what happens when quick lime is added to water taken in a beaker. State two important observations and name the type of reaction taking place
6. Why does the colour of copper sulphate solution change when an iron nail is dipped in it? Write two.
7. The following diagram displays a chemical reaction. Observe carefully and answer the





following questions

8. What is rancidity? Mention any two ways by which rancidity can be prevented.

9. A white salt on heating decomposes to give brown fumes and a residue is left behind.

(i) Name the salt.

(ii) Write the equation for the decomposition reaction.

10. What is meant by

(i) Precipitation reaction,

(ii) Exothermic reaction,

(iii) Oxidation reaction?

Write balanced chemical equations for an example of each.

Biology

1. Define nutrition? What are the different modes of nutrition?

2. Name the pigment, which can absorb solar energy.

3. What are enzymes? Name any one enzyme of our digestive system and write its function.

4. Where does digestion of fat take place in our body?

5. What is the role of acid in our stomach?

6. What is the role of saliva in the digestion of food?

7. What are stomata? Draw labelled diagram of stomata. Write any two functions of stomata.

8. What are the final products produced after digestion of carbohydrates, proteins, and fats?

9. How small intestine does is designed for the absorption of food?

10. Why do herbivores have longer, small intestine than carnivores?

11. Explain the significance of peristaltic movement that occurs all along the gut during digestion.

12. Draw a well labeled diagram of digestive system.



SOCIAL SCIENCE HOMEWORK

- Revise all the chapters done in the class.
- 1. Every student has to compulsorily undertake one project on
Consumer Awareness
Or
Sustainable Development
Or
Social Issues

The project should include the following:

- minimum 8 pages
- clear related and coloured pictures



INFORMATION TECHNOLOGY

Make an Assignment on given Topic(Roll no -1 to 20)

1. Online Blog
2. Online Shopping

Make an Assignment on given Topic(Roll no – 21 Onwards)

1. Online Reservation
2. Offline Blog