D.V.S. Public School
Holiday Home Work
Class-X

English

1. First height : Learn & write Lesson-1 & 2 with Word meaning in your holiday home work copy.

2. Write The Summary of Lesson -1 & 2 in your own words.

Poem. Do Extract Question/Answers, Word Meanings and Back Question/Answers learn & write in your Holiday Home work.

Poem: Dust of Snow. Poem-2 Fire and Ice.

Foot Prints without feet lesson-1 A triumph of surgery.

lesson-2 The Thief's story

Learn and write word meaning and Question/Answers.

Write the summary of Lesson-1 & Lesson-2 in your own words. (Don't Use Book language)

Grammar: 1. Revise Determiners, Kinds of Determination

2. Do Exercise on Tenses (At least 100 Sentence)

3. Learn verb forms including 'ing' V1 V2 V3 V4

4. Write a dialogue writing with pictures on any topic.

5. Write autobiography of 'Nelson Mandela'

6. Write 5 Word meaning daily (in Word Meaning Note Book) search meaning with the help of dictionary.

7. Write a Paragraph on : a) Impact of Online Study. b) Save girl child c) Most Recent Travel Experience.

हिन्दी

क्षितिज: गद्य खण्ड: पाठ-10

काव्य खण्ड: पाठ-1, पाठ-2

कृतिका: पाठ-1

व्याकरण: पाठ-1

पत्र: औपचारिक पत्र (2), अनौपचारिक पत्र (3)

उपर्युक्त सभी विषयों को लिखना व याद करना है

परियोजना कार्यः 1. काव्य सम्राट 'सूरदास' का जीवन परिचय काव्यगत विशेषताए, भाषा शैली व उनकी मुख्य रचनाओं के आधार पर एक सुन्दर फाईल तैयार करें 'ए–4 साईज शीट पर'

2. दिए गये पॉंच उत्पादों पर एक एक विज्ञापन तैयार किजिए।

क. किसी मसाले के लिए

ख. अपना घर बेचने के लिए

ग. 'सुलेख' बॉल पेन

घ. 'अनिका' शैम्पू

ड़. 'शैलजा' आयुर्वेदिक संस्थान का च्यवनप्राश

Maths

Revise: Chapter-1 Number systems

Chapter-2 Polynomials

Chapter-3 Co-ordinate Geometry.

Project Work: Learn & write the identities and formulas of above chapters.

Prepare a working model on Algebraic Identities.

Maths Questions

1. Use Euclid division algorithm to find the hcf of 867 and 255.

2. Find the HCF and LCM of 144, 180 and 192 by Prime fractionation method

3. On a morning walk, these persons steps of together and their steps measure 40 cm. respectively. what is the minimum distance each short walt so that each cam cover the same distance and complete steps.

4. Find the zeros of the Polynomial $x^2+1x/6-2$, and verify the reaction between coefficients and zeros of the Polynomial.

5. If the Product of the zeros of the polynomial $ax^2- 6x - 6$ is 4 find the value of a?

6. Divide the polynomial P(x) by the polynomial g (x) and find the quotient and remainder. $P(x)= X^4 - 3X^2 + 4x + 5$ $g(x) = X^2 + 1 -X$.

7. Romila went to a Stationary stall and purchased 2 pencil and 3 erasers for Rs. 9/- her friend sonali saw the new variety of pencils and erasers with romila and she also bought 4 pencil and 6 erasers of the same kinds for Rs. 18 Represent this situation algebraically and Geophically.

8. Solve the linear equations 2x-y-4=0, x+y+1=0 Graphically. Find the points where the lines meet y-areas.

9. Show That the Point (1,-1) (5,2) and (9, 5) are collinear.

10. Show that A(6,4) B(5,-2) and C(7,-2) are the vertices of an isosceles Triangle.
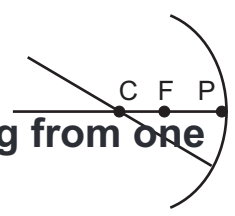
Social Science

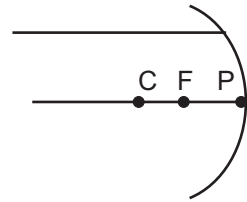|	
History:	Chap-1 Read the chapter brief and make a notes
Economics:	Chap-1 Read and make notes Ques./Ans. Learn & Write
Geography:	Chap-1 Read and make notes Ques./Ans. Learn & Write
D.p.:	Chap-1 Read and make notes Ques./Ans. Learn & Write
Project Work:	Make a file on various places of monuments in India. Write a notes and Ques./Ans. Separate notebook.

Extra Question

1. Why had Africa remained under developed for a long time despite its vast natural resources.

2. Discuss the need for conservation of resources in India.

3. Why is it important to raise the band area under forests?

4. what if the effect of increased carbon dioxide in the atmosphere?

5. what are the effects of rising population on land?

6. how is it that India sustains a huge cattle population with only 4% of its. are under pastures?

7. How are Indian soils classified?

8. Explain how the texture of soil is relates to its location in reflation to the river.

9. Distinguish between bangar and khadar soils.

10. Distinguish between red soil and laterite soil.

11. On an outline map of sri Lanka. show the geographical distribution of different communities.

12. How did the Tamils respond to the policy of majoritarianism practiced by the government?

13. What have been the positive effect of the power - sharing arrangement in Belgium?

14. Describe in Brief the major forms of Power -Sharing arrangement in modern Democracies.

15. what can be some of the developmental goals of your village, town or faculty.
16. Besides size of Percapita income which other property of income is important in comparing two or more societies.
17. Write a paragraph on your notion of what should India do, or achieve to become a developed country.
18. Why was the third tier of government created in India?
19. Describe the structure of a federal government.
20. The Prime Minister suns the Country. A chief Minister Runs the state Logically then, The chair Person of Zilla Prishad should run the district why does the district magistrate or collector administer the district.
21. Write about agenda-21.
22. Expand UNCED.
23. What is infant Mortality rate ?
24. What is human Development ?
25. What is net attendance Ratio ?

Physics

1. a) What is the radius curvature of a spherical mirror?

   b) What are the units of Power of a lens?

2. An objects of size 2 cm is placed at 25 cm in front of concave mirror. if magnification produced by mirror is 4, what is the size of Image ?

3. When an Objects is kept with in the focus of a concave mirror, an enlarged image is formed behind the mirror. this image is:
   a) real   b) inverted
   b) virtual and inverted   d) virtual and erect

4. At what distance from a concave mirror of focal length 20 cm,should an object be placed to obtain a real image of same size.

5. a) Show the direction of light after reflection.
   b) Why does a ray of light bend or get refracted in passing from one medium to another?

6. State the relation between height of an object, height of image, object distance and image distance in case of a lens.

7. List four Characteristics of the image formed by Plane mirror.

8. State two positions in which a concave mirror produces a magnified image of a given object. List two differences between the two images.

9. A Ray of light is incident on a spherical mirror as shown in the figure. Draw reflected ray and also mark the angles of incidence and reflection on it.

10. An Object is placed at the following distances from a convex lens of focal length 15 cm.
    a) 35 cm
    b) 30 cm
    c) 20 cm
    d) 10 cm

11. a) if the image formed by a mirror for all positions of the object placed in front of it is always diminished, erect and virtual, then state the type of the mirror and also draw a ray diagram to justify your image.
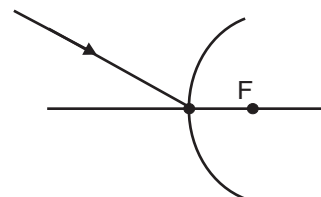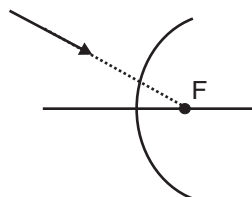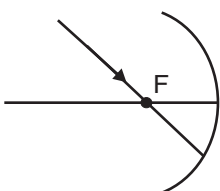
    b) an illuminated object and a screen are placed 90 cm apart. what is the focal length and nature of the lens required to produce a clear image on the screen, twice the size of the object?

12. Draw ray diagrams to describe the nature, position and relative size of image formed
    a) by a convex lens for the object when it is placed at $2F_1$.
    b) by a concave mirror for the object when it is placed between pole P and focus F.

13. A 5.0 cm tall object is placed perpendicular to the principal axis of a convex lens of focal length 20 cm. The distance of the object from the lens is 30 cm. by calculation determine i) the position and ii) the size of the image formed.

14. Complete given diagram in which a ray of light is incident on a concave/convex mirror on your answer sheet. show the path of this ray after reflection, in each case.

15. The Speed of light in a certain glass is 1.8×10^8 ms^{-1}.
    a) Define refractive index.
    b) What is the SI unit of Refractive index.?
    c) what is the refractive index of the glass?

16. You are given mirrors of equal size - Concave, convex and plane. How will you identify them without touching their surfaces?

17. An object 4.0 cm in size, is placed 25.0 cm in front of a concave mirror of focal length 15 cm.
    a) At what distance from the mirror should a screen be placed in order to obtain a sharp Image?
    b) Find the size of the image.
    c) Draw a ray diagram to show the formation of images in this case.

18. a) A lens produces a magnification of -0.5. is this a converging or diverging lens? If the focal length of the lens is 6 cm. Draw a ray diagram showing the image formation in this case.
    b) A girl was playing with a thin beam of light from a laser torch by directing it from different directions on a convex lens held vertically. she was surprised to see that in a particular direction, the beam of light continues to move along the same direction after passing through the lens. state the reason for her observation. draw a ray diagram to support your answer.

19. a) On entering a medium from air, the speed of light becomes half of its value in air, find the refractive index of the medium with respect to air?

Chemistry

1. a) Identity the component oxidised in the given reaction.
   $H_2S + Cl_2 \longrightarrow 2HCl + S$

   b) Aluminium burns in chlorine to form aluminium chloride. Write a balanced equation for this reaction.

2. In which types of reaction does an exchange of ions take place ?

3. Which among the following statements(s) is (are) true ? Justify your answer exposure of silver chloride to sunlight for a long duration turns grey due to
   i) the formation of silver by decomposition of silver chloride.
   ii) Sublimation of silver chloride.
   iii) decomposition of chlorine gas from silver chloride.
   iv) oxidation of silver chloride
   a) i only   b) i and iii   c) ii and iii   d) iv only

4. Write the balance chemical equation with the state symbols of the following reaction of barium chloride and sodium sulphate in water react to give insoluble barium sulphate and the solution of sodium chloride.

5. Differentiate between corrosion and rancidity.

6. a) When iron is heated with sulphur, iron sulphide is formed. What is the reaction called.
   b) State an important use of decomposition reactions?

7. Identity the type of reaction from the following equations:
   a) $CH_4 + 2O_2 \longrightarrow CO_2 + 2H_2O$ b) $Pb(NO_3)_2 + 2KI \longrightarrow PbI_2 + 2KNO_3$
   c) $CaO + H_2O \longrightarrow Ca(OH)_2$ d) $CuSO_4 + Zn \longrightarrow ZnSO_4 + Cu$

8. What is a balanced chemical equation ? Why is it necessary to balance the chemical equation?

9. Write balanced chemical equations to represent the following statements:
   a) Carbon (coke) burns in air to form carbon dioxide gas.
   b) A piece of sodium metal on putting in water forms caustic soda and hydrogen gas.

c) Give two examples from daily life situation where redox reactions are taking place.

10. Write a chemical equation for each of the following reactions:
a) Zinc metal react with aqueous solution of hydrochloric acid to from zinc chloride solution and hydrogen gas.
b) When solid mercury (ii) oxide is heated, liquid mercury and oxygen gas are produced.
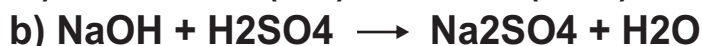
11. Write the balanced equations for the following reactions and add the state symbols.
a) Magnesium carbonate react with hydrochloric acid to produce magnesium chloride , carbon dioxide and water..
b) Sodium hydroxide reacts with sulphuric acid to produce sodium sulphate and water.

12. What is decomposition reaction ? Why is decomposition reaction called the opposite of combination reaction ? Write equations for these reactions.

13. Balance the following chemical equations:
a) $HNO_3 + Ca(OH)_2 \longrightarrow Ca(NO_3)_2 + H_2O$
b) $NaOH + H_2SO_4 \longrightarrow Na_2SO_4 + H_2O$
$BaCl_2 + H_2SO_4 \longrightarrow BaSO_4 + HCl$

14. a) i) What is observed when a solution of potassium iodide is added to a solution of lead nitrate taken in a test tube?
ii) What type of reaction is this?
iii) Write a balanced chemical equation to represent the above reaction.
b) Decomposition reactions require energy either in the form of heat or light or electricity for breaking down the reactants, Write one equation each for decomposition reactions where energy is supplied in the form of heat,light and electricity.

15. a) Give an example for a combination reaction which is exothermic
b) identify the oxidising agent, reducing agent in the following reaction.

b) identify the oxidising agent, reducing agent in the following reaction.

$$H_2S + Cl_2 \quad \text{------} \quad 2HCl + S$$

c) Name the phenomenon due to which the taste and smell of oily food change when kept for a long time in open. Suggest one method to prevent it.

16. a) Solid calcium oxide was taken in a container and water was added slowly to it.
    i) Write the observation.
    ii) Write the chemical formula of the product formed.
    b) Why do you apply paint on iron articles.
    c) What happens when carbon dioxide gas is bubbled through time water:
    i) in small amount ?
    ii) in excess?

17. What happens when a piece of
    a) zinc metal is added to copper sulphate solution ?
    b) aluminium metal is added to dilute hydrochloric acid?
    c) Silver metal is added to copper sulphate solutions ?
    Also, Write the balanced Chemical equation if the reaction occurs.

18. Identify the type of chemical reaction in the following statement and define each of them:
    a) Digestion of food in our body.
    b) Rusting of iron.
    c) Heating of manganese dioxide with aluminum powder.
    d) Blue colour of copper sulphate solution disappears when iron filling are added to it.
    e) dilute hydrochloric acid is added to sodium hydroxide solution to form sodium chloride and water.

Biology Holiday Homework

1. Make a 3D diagram (using thermocol) sheet on any one of the topic given below:-
a) Nutrition in Amoeba
b) Human digestive system
c) Cross section of leaf.