SANT NIRANKARI PUBLIC SCHOOL, FARIDABAD
CLASS IX (2019-20) HOLIDAYS HOMEWORK

ENGLISH

1. Taking help from the information given below, make a diary entry describing how you caught a thief red-handed one night,
Hints: • A beautiful evening • the family had a nice dinner • watched TV • went to sleep • sleep was disturbed • heard some commotion • got suspicious • switched on the light • parents also got up • found things in a mess • someone had come there • the search began • no one was found at last • my eyes fell

2. After a long vacation, your school is going to reopen in couple of days. Write a diary entry describing your feeling about having to go to school.

3. Write a story in about 150-200 words with the following beginning and give a suitable title to it.
Rahul was alone at home. Suddenly the phone rang …….

4. Read the poems 'Wind' and 'The Road Not Taken' and write down summary of the poems in your own words.

5. Read any newspaper in English and write down five (Two international news, two national news and one sports news headlines) on every Saturday and Sunday.

6. Practice full grammar at the back of literature book "Beehive" and make a file with various examples.

7. Learn the syllabus covered in April and May.

8. Read all the chapters covered in the class of "Beehive", "Moments".

HINDI

ग्रीष्मावकाश गृहकार्य
कक्षा - नवीं
विषय - हिंदी

* 'स्पर्श' में पढ़ाए गए सभी पाठों को ध्यानपूर्वक पढ़ें व उनसे संबंधित प्रश्न - उत्तर याद करें।
* प्रतिदिन एक अपठित गद्यांश या पद्यांश का अभ्यास करें।
* व्याकरण में कराए गए पाठों का अभ्यास करें।
* अनौपचारिक पत्रों को पढ़ें व लिखकर याद करें।
* अनुच्छेद संख्या (21-30) पढ़ें।
* व्याकरण (लेखन भाग) पाठ-4 में प्रश्न 3 का अभ्यास करें।
* व्याकरण (लेखन भाग) पाठ-5 के प्रश्न संख्या-2 में दिए गए विज्ञापनों का अभ्यास करें।

Mathematics

Number System

Q.1 Show that 1.272727 = can be expressed in the form p/q, where p and q are integers and q ≠0.

Q.2 Write three numbers whose decimal expressions are non-terminating & nonrecurring?

Q.3 Find three different rational between 3/5 and 4/7.

Q.4 Classify the following numbers as rational or irrational.

(a) (b) (c) 0.6796

(d) 1.101001000100001....

Q.5 Visualize 3.765 on the number line using successive magnification.

Q.6 Visualize on the number line upto 4 decimal places.

Polynomial

If $p(x) = 3x^2 - 1$, find the value of $p\left(-\frac{1}{\sqrt{3}}\right) + p\left(\frac{-2}{\sqrt{3}}\right)$.

Determine whether the following is true/false.

$x = -2$ is the zero of the polynomial $p(x) = \frac{9}{4}x^2 - 9$.

If $x = \frac{4}{3}$ is a root of the polynomial $f(x) = 6x^3 - 11x^2 + kx - 20$, then find the value of k.

If $x = 2$ and $x = 0$ are the roots of the polynomial $f(x) = 2x^3 - 5x^2 + ax + b$, then find the values of a and b.

For the polynomial $\frac{x^3 + 2x + 1}{5} - \frac{7}{2}x^2 - x^6$, then write [NCERT EXEMPLAR]

(*i*) the degree of the polynomial (*ii*) the coefficient of x^3

(*iii*) the coefficient of x^6 (*iv*) the constant term

Coordinate Geometry

Q.1 Find the mirror images of the following point using x-axis & y-axis as mirror.

(i) A(2,3)

(ii) B(2,-3)

(iii) C(-2,3)

(iv) D(-2,-3)

Q.2 Draw the graph of the following equations

(i) y=3x+2 (ii) y=x

Q.3 Draw a triangle with vertices 0(0,0) A(3,0) B(3,4). Classify the triangle and also find its area.

Q.4 Draw a quadrilateral with vertices A(2,2) B(2,-2) C(-2,-2), D(-2,2). Classify the quadrilateral and also find its area.

Q.5 Find the coordinates of point which are equidistant from these two points P(3,0) and Q(-3,0). How many points are possible satisfying this condition?

Linear Equations in Two Variables

1. Determine the point on the graph of the linear equation x + y=6, whose ordinate is twice its abscissa.

Q2. How many solution(s) of the equation 3x+2=2x-3 are there on the

i) Number Line ii) Cartesian plane

Q3. Draw the graph of the equation represented by the straight line which is parallel to the x-axis and 3 units above it.

Q4. Find the solutions of the linear equation x+2y=8, which represents a point on i) x axis ii) y-axis

Q5. For what values of c, the linear equation 2x+cy=8 has equal values of x and y as its solution.

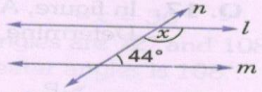
Q6. Give the geometrical interpretations of 5x+3=3x-7 as an equation

i) in one variable ii) In two variables

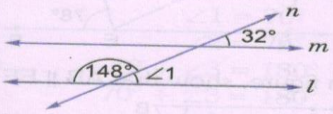
Lines and Angles

Q. 1. Write true or false :
If a transversal intersects two parallel lines, then each pair of consecutive interior angle are complementary.

Q. 2. In the given figure, if $l \parallel m$, then find the value of x.

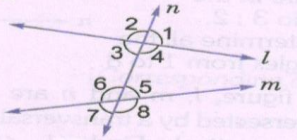


Q. 3. In the given figure, what is the relation between line l and line m ?



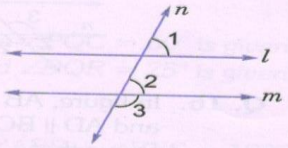
Q. 4. If two interior angles on the same side of a transversal intersecting two parallel lines are in the ratio 2 : 3, then find the greater of the two angles.

Q. 5. In the figure, name the type of $\angle 2$ and $\angle 8$.



[Two Marks Questions]

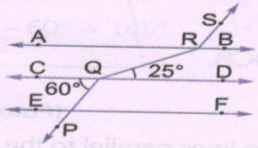
Q. 6. In the given figure, lines $l \parallel m$ and n is any transversal. If $\angle 1 = 70°$, find the measures of $\angle 2$ and $\angle 3$.



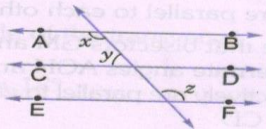
Q. 7. In the given figure, if AB || CD || EF, PQ || RS, $\angle RQD = 25°$ and $\angle CQP = 60°$, then $\angle QRS$ is equal to

(a) 85° (b) 135°
(c) 145° (d) 110°

[NCERT EXEMPLAR]



Q. 8. In the figure, if AB || CD, CD || EF and $y : z = 3 : 7$, find the value of x.



*Do above assignments in a separate notebook and also practice above chapters from NCERT.

S.ST

1. LEARNING WORK

1. History: The French Revolution

2. Geography: India Size And Location & Physical features of India

3. Civics: What is Democracy, Why is Democracy?

4. Economics: The story of Palampur Village & People as resource

2. MAP WORK

Geography: Chapter 2 & 3

Political Map of India

Physical Map

3. PROJECT FILE :- Disaster Management

4. Prepare a P.P.T on any two of the following topics:-

1. History: Chapter -1 2. Geography: Chapter- 1 3. Civics: Chapter- 2 4. Economics: Chapter- 1

5. WHAT YOU'VE DONE IN YOUR HOLIDAYS FOR ENVIRONMENT, SOCIETY, ETC. (W rite on A4 sheet)

6. Make your Portfolio Folder with cartridge/handmade sheet.

ASSIGNMENT-

Geography :

Q1 multiple choice questions- Choose the correct answer.

[a] The total geographical area of India is

1. 15.9 million sq kms.

2. 3.28 million sq kms.

3. 4.67 million sq kms.

4. None of the above.

[b] Which one of the following country is not a part of the Indian subcontinent?

1. Pakistan 2. Nepal 3.Bangladesh 4.Afganistan

[c] Identify the state which is not landlocked

1. Tripura 2. Maharashtra 3.Chhatisgarh

[d] Sikkim, West Bengal, Assam and Arunachal Pradesh have common frontier with

1. Nepal 2.Bangladesh 3. Bhutan 4. Myanmar

Q2 -What is the latitudinal extent of India?

Q3- What is the longitudinal extent of India?

Q4- What is the North South extent of India in kilometers?

Q5 - What is the East and West extent of India in kilometers?

Q6 - What is the total length of India¡¦s land boundary? What is the length of India¡¦s coast line?

Q7- Why is India called a peninsula?

Q8 - Name the Indian states forming land frontiers with

„ Pakistan
„ Bangladesh
„ China
„ Myanmar
„ Bhutan
„ Nepal

Q9 - Name the states /union territories forming the western coastline.

Q10- Name the states /union territories forming the eastern coastline.

Q11 - What is a subcontinent? Name the countries forming the Indian subcontinent.

Q12- Name the states/union territories of India which neither form the coast line nor the land frontiers.

Q13- Why do we need a standard meridian for India? Explain.

Q14- Why is the difference between duration of a day night hardly felt at Kanyakumari but not so in Kashmir?

Q15- What is the significance of India in the Indian Ocean.

Q16- Map work:-

In a political map of India locate 28 states and 7 union territories of India. In a political map of India locate capitals of states of India. In a map show neighboring countries of India.

Political science

Q1) State one feature of non-democratic government with example?

Q2) Describe any one argument against democracy?

Q3) Mention any one method adopted by PRI to win elections in democracy?

Q4) Why is democratic govt. a better govt.?

Q5) What does democracy do to its citizens?

Q6) What is representative democracy? Why do we need it?

Q7) What steps were taken by President Robert Mugabe of Zimbabwe to remain in power?

Q8) Explain 5 features of democracy?

Q9) Democracy talks about political equality. Is it enough for citizens? What do you think? What other aspects are essential to make our democracy very close to perfection?

Q10) although the principle of universal adult franchise has now come to be accepted all over the World, there are instances of denial of equal right to vote. Explain with an example?

ECONOMICS- The story of village PALAMPUR

1) What are the main economic activities of the village palampur?

2) Name the village and town connected with palampur.

3) Why do we call the village palampur as a hypothetical village?

4) Name the vehicles often found in the villages.

5) How many families lived in the village? Where did the dalits live?

6) How is land fixed in the village palampur?

7) Which Indian village resemble palampur?

8) What are the different crops grown in the Indian villages during different seasons?

9) Where do the villagers of palampur sell jaggery?

10) What is Green revolution?

11) What is HYV ?

12) What is the difference between multiple cropping and modern farming method?

13) How modern methods have over used the natural resources and violated the resources?

14) Who will provide labour to landless farmers?

15) What is surplus? What do the farmers do with the surplus?

HISTORY

CHAPTER-1: THE FRENCH REVOLUTION

France before 1789

1. Evaluate the French royal court at Versailles, why it existed and the contribution it made to French government and society.

2. “The French nobility did little but concern themselves with leisure, finery, decadence, affairs and intrigues.” To what extent is this statement true in the context of late 18th century France?

3. The presence of things like lettres du cachet and the Bastille give the impression that prerevolutionary France was an authoritarian society that oppressed personal liberty and freedom. To what extent was this true?

4. Examine the role of religion in 18th century France, both in ideological and practical terms. Howdid ordinary French people view the Catholic church and its clergy?

5. Identify and discuss tensions between the Three Estates that may have contributed to revolutionary sentiment in 18th century France.

6. To what extent was feudalism a cause of the French Revolution? Describe how feudal bonds anddues impacted on the ordinary people of France during the 18th century.

7. Explain why the taxation regime and the collection of tax revenue in 18th century France failed to meet the fiscal requirements of the nation.

8. Some historians argue that commerce and trade in France was restricted by regulations that were overbearing, complex and inconsistent. What were the grievances of the merchant and capitalist class in pre-revolutionary France?

9. Discuss how the strains and stresses of imperialism might have weakened the domestic government in 18th century France, paving the way for revolutionary sentiment.

10. Consider the political, economic and social position of women in 18th century France. Did the women of France have more motivation or potential for revolution than the men?Government and royalty in the ancient regime

11. Louis XIV is once reported as saying “L’etat, c’estmoi” (‘The state is me’). To what extent was this true, both of Louis XIV and his two successors?

12. Describe the relationship between the Bourbon monarchy and the French people in the century before 1789. How did French kings impose their will on the nation? (2008,2010)

13. In what ways did the Roman Catholic religion support the Bourbon monarchy – and how was the church itself supported by the state?

14. Discuss the relationship between the Bourbon monarch and the Second Estate. How did tensions between the king and his nobles shape the political landscape?

15. Evaluate Louis XVI and his character, personal abilities and his suitability for leadership. Was he a flawed king, or simply a victim of circumstance?

Subject - Science

1. Learn pages and exercise question/answers of chapters 1,2,5,8 and 9.

2. Write experiment number 01 to 07 in practical file.

3. make your portfolio folder with cartridge/hardmade sheet.

4. Do assignments of the following chapter 1,2,5,8 and 9 which are given below.

Assignment 1 - Chapter 1: Matter in our surrounding

Ques 1: Define matter.

Ques 2: State different states of matter with an example.

Ques 3: What is diffusion?

Ques 4: What happen to the rate of diffusion if the temperature is increased?

Ques 5: Name the state of matter that have the tendency to maintain their shape when subjected to outside force.

Ques 6: Define melting point.

Question 7: Define boiling point.

Ques 8: Define latent heat of vaporization.

Ques 9: Define latent heat of fusion.

Ques 10: Define sublimation.

Ques 11: What is dry ice?

Ques 12: What is humidity?

Ques 13: Give two properties of solid.

Ques 14: What will happen if the pressure is reduced on solid

carbon dioxide (dry ice)?

Ques 15: dame any three substances that show sublimation.

Ques 16: Sponge is solid, but we can still compress it. Why?

Ques 17: What is normal atmospheric pressure?

Ques 18: What is Kelvin?

Assignment 2 - Chapter 2: Is matter pure around us?

Question 1. How to separate two immiscible liquids?

Question 2. What is water called a universal solution?

Question 3. Give the differences between true solution, colloidal solution and suspension?

Question 4. Draw a flow diagram to show the water purification system is water works.

Question 5. Give two applications of centrifugation.

Question 6. How can you prove that water is a compound?

Question 7. How can we convert saturated solution into unsaturated by heating?

Question 8. What is the difference between fog and smoke?

Question 9. Show the different types of colloids with examples.

Question 10. What is Tyndall effect?

Question 11. Which process can purify the impure sample of potash alum?

Question 12. Name the solutions which show the Tyndall effects

Question 13. What is centrifugation? Explain briefly.

Question 14. Name some homogenous as well as heterogeneous mixtures.

Question 15. What are the differences between a physical change and a chemical change?

Question 16. What is the procedure to obtain different gases from air?

Question 17. How is fog different from smoke?

Question 18. Is water a compound? Prove your answer.

Question 19. Calculate the concentration of 45 g salt present in 500 g of solution.

Question 20. A girl is given naphthalene balls powder and common salt. Help her by explaining how to separate the mixture.

Assignment 3 - Chapter 5:The Fundamental unit of life

Q1 Write the main function of leucoplast.

Q2 What is the function of SER in liver cells of vertebrates?

Q3 Why the RER appears rough?

Q4 Why viruses are not supposed to be living?

Q5 What is a nucleoid?

Q6 Why dry raisins placed in water swell up?

Q7 In which part of a plant chromoplasts are found?

Q8 Where are genes located?

Q9 What will happen if we keep a plant cell or animal cell in a i) Hypotonic solution ii) Hypertonic solution iii) Isotonic solution.

Q10 Explain the importance of osmosis for living beings?

Q11 Give the historical development of cell theory.

Q12 Who coined the term “cell “ and how?

Q13 Write the contribution of (a) Robert Hooke, (b) Leeuwenhoek (c) Robert Brown

Q14 Draw a large diagram of an animal cell as seen through aan electron microscope. Label the parts that carry on the function of Respiration, secretion, protein synthesis, transport of material.

Q15 Which substance is responsible for transfer of characters from one generation to another?

Assignment 4 - Chapter 8: Motion

1. (a) Identify the kind of motion in the following cases:

(i) A car moving with constant speed turning around a curve.

(ii) An electron orbitting around nucleus.

(b) An artificial satellite is moving in a circular orbit of radius 36,000 km. Calculate its speed if it takes 24 hours to revolve around the earth.

2. (a) Define average speed.

(b) A bus travels a distance of 120 km with a speed of 40 km/h and returns with a speed of 30 km/h. Calculate the average speed for the entire journey.

3. Define uniform and non-uniform motion. Write one example for each.

4. What does the odometer of an automobile measure? Which of the following is moving faster? Justify your answer.

(i) A scooter moving with a speed of 300 m per I minute.

(ii) A car moving with a speed of 36 km per hour.

5. A car travels from stop A to stop B with a speed of 30 km/h and then returns back to A with a speed of 50 km/h. Find

(i) displacement of the car. (ii) distance travelled by the car. (iii) average speed of the car.

6. Velocity-time graph for the motion of an object in a straight path is a straight line parallel to the time axis.

(a) Identify the nature of motion of the body.

(b) Find the acceleration of the body.

(c) Draw the shape of distance-time graph for this type of motion.

7. Draw the shape of the distance-time graph for uniform and non-uniform motion of object. A bus of starting from rest moves with uniform acceleration of 0.1 ms–2 for 2 minutes. Find

(a) the speed acquired.

(b) the distance travelled.

8. (a) Define uniform acceleration. What is the acceleration of a body moving with uniform velocity?

(b) A particle moves over three quarters of a circle of radius r. What is the magnitude of its displacement?

9. A bus accelerates uniformly from 54 km/h to 72 km/h in 10 seconds Calculate

(i) acceleration in m/s2

(ii) distance covered by the bus in metres during this interval.

10. A car moves with a speed of 30 km/h–1 for half an hour, 25 km/h–1 for one hour and 40 km/h–1 for two hours. Calculate the average speed of the car.

11. Derive the equation for velocity-time relation (v = u + at) by graphical method.

12. A car is travelling at 20 km/h, it speeds upto 60 km/h in 6 seconds. What is its acceleration?

13. A car accelerates from 6 ms–1 16 ms–1 in 10 sec. Calculate

(a) the acceleration and

(b) the distance covered by the car in that time.

14. A circular track has a circumference of 3140 m with AB as one of its diameter. A scooterist moves from A to B alone the circular path with a uniform speed of 10 m/s. Find

(a) distance covered by the scooterist,

(b) displacement of the scooterist, and

(c) time taken by the scooterist in reaching from A to B.

15. (a) Differentiate between uniform linear and uniform circular motion.

(b) Write any four examples of uniform circular motion.

(c) Is uniform circular motion accelerated motion?

Assignment 5: Chapter 9 - Forces and Laws of Motion

1. What do you mean by law of conservation of momentum?

2. Why do roads on mountains have inward inclination at sharp turns?

3. Why is it dangerous to jump out of a moving bus?

4. How do safety belts of cars help in preventing accidents?

5. Explain how momentum gets conserved in collision of two bodies?

6. How are Newton's three laws of motion related?

7. Explain inertia and momentum in detail.

8. Define force and its various types. What is its unit?

9. Give three examples exhibiting inertia in our daily life

10. What change will a force bring in a body?

11. From a rifle of mass 5kg, a bullet of mass 50gram is fired with an initial velocity of 50m/s. Calculate the initial recoil velocity of the rifle.

12. Explain how Newton's second law of motion is used in sports?

13. Why does one get hurt on jumping from a great height to the floor?

14. What is a balanced force?

*Do above assignments in a separate notebook

Information Technology

Project File

1. Create an invitation Card in MS Word using Pictures and shapes.
2. Create a text document and discuss about the basic organization of a Computer: CPU, Memory, input/output devices, hard disk with help of block diagram of computer.
3. Create a letter in MS Word for complaining about the fault in Computer System to vendor.
4. Create a poster in MS Word on the topic “Social Networking websites”.
5. Create a document in MS Word containing basic 15 shortcut keys with their use in tabular form.

Practical Assignment-submit in pen drive

a) Make a presentation on Input/Output/Storage device, stating use of each device (soft copy to be submitted in CD/ Pendrive)