

**SANT NIRANKARI PUBLIC SCHOOL
AVTAR ENCLAVE, PASCHIM VIHAR
CLASS X
HOLIDAYS HOME WORK (2022-23)**

Dear Parents,

The much-awaited summer break is here! Holidays are a well-deserved opportunity to relax and to involve in pleasurable activities. Along with all the fun activities, we would like to keep them productively and occupied with some academic work and activities.

Few worksheets of each subject have been prepared to help the child revise the concepts done in the classes. Please ensure that the child spends some time every day to complete these worksheets.

It's high time for all to be fit and active even by staying at home.

- ❖ Daily exercise is must for all.
- ❖ Eat healthy and avoid junk food.
- ❖ Maintain social distance to prevent the disease.
- ❖ Avoid heavy and oily food and increase intake of fresh fruits and water to keep you well hydrated and energetic.

Few tips for the parents:

- ❖ Encourage your child to read regularly and to point out new words, to look for it in the dictionary to enhance their vocabulary.
- ❖ Encourage them to speak in English.
- ❖ Involve them in reading of newspaper.

Read the instructions carefully:

- ❖ The holiday homework carries marks.
- ❖ All the worksheets will be done on A-4 size ruled sheets and will be kept in a folder with student's name and class clearly written on the top.

**Wishing you all "Happy Holidays!"
Stay safe and happy.**



ENGLISH

- ❖ Prepare an art integrated project file, related to the topic Nelson Mandela, describe the achievement of Nelson Mandel and his struggle for freedom.
- ❖ Your school prints an E- News Letter every quarter. Studying in a missionary school all these years. What qualities of the mission would you like to adopt in your life? Pen your views in the student's corner of the News E – letter.
- ❖ We all are a witness to the difficult times. Some are struggling for their lives and some for their livelihood but still there is some faith that keeps us moving. In the chapter a letter to God we have witnessed how faith can move mountains. Yes, faith can really move mountains. Elaborate this statement with reference to any experience you have witnessed.
- ❖ List down the goals to achieve maximum result. Follow the 10 steps given below to achieve your goals.



The basics of setting and completing your goals

Name of the student _____ Class and Section _____

Roll No. _____

Goal Start Date _____

My goal is _____

Goal Completion Date _____

Steps to Reaching my goal:

1. _____

2. _____

3. _____

4. _____

Two things that will help me reach my goal

1. _____

2. _____

I will know I have reached my goal because:

My Main Goal Right Now

1. My key strength that will help me achieve this goal are:

2. Obstacle that may arise are....

3. This goal is important to me because...

4. How I plan to respond to each obstacle:

5. What will be different when I achieve my goal?

6. Next best Steps

- ❖ Complete the given assignments on an A-4 size sheet and keep them safe with you in a clear bag.

**SANT NIRANKARI PUBLIC SCHOOL
AVTAR ENCLAVE, PASCHIM VIHAR
CLASS – X
ENGLISH WORKSHEET- 1
PROSE 01 - A LETTER TO GOD**

SUMMARY

A Letter To God is a story of extreme faith in God. In this story, the writer has tried to depict the faith of a simple and hardworking farmer Lencho in God. Lencho was an honest farmer. He lived on a low hill along with his family. He was expecting a good harvest. All of a sudden, the hailstorm came and destroyed his crop completely. He was quite hurt He wrote a letter to God and demanded 100 pesos. Lencho had faith in God. He asked God to send him money. The postmaster saw the letter. He laughed loudly. Then he got serious and decided to help Lencho. He collected some money. He put it inside the envelope and sent it to Lencho. Lencho came to the post office to check his mail. The post office people gave him the envelope. Lencho opened the envelope. He took out the money and counted it. He found that it was less than what he had asked for. He got angry. He wrote another letter to God. He asked God to send him rest of the money. But he asked God not to send the money through the mail because the post office employees are a "bunch of crooks".

REFERENCE TO THE CONTEXT

Read the given extract and answer the questions that follow:

1. The house the only one in the entire valley - sat on the crest of a low hill. From this height one could see the river and the field of ripe corn dotted with the flowers that always promised a good harvest the only thing the earth needed was a downpour or at least a shower. Throughout the morning Lencho who knew his field intimately had done nothing else but see the sky towards the north-east.

"Now we're really going to get some water, woman."

The woman who was preparing supper, replied, "Yes, God willing"

- Where was the house situated?
- Which two things could one see from this height!
- What did the only thing the earth need?

Answer the following questions :

- Whom did Lencho write a letter? What did he ask for?
- Why did the postmaster send money to Lencho?
- How far would you agree that one's positivity can bring in a spark of brightness even in adverse circumstances?
- What was Lencho's reaction to find a letter with money in envelope?
- How was the postmaster?
- Why was Lencho angry ? What did he do?
- Why does Lencho call the raindrops 'new coins'?
- Why were Lencho and his family in distress? Whom did he ask for help?

**SANT NIRANKARI PUBLIC SCHOOL
AVTAR ENCLAVE, PASCHIM VIHAR
CLASS – X
ENGLISH WORKSHEET-6
CH- A TRIUMPH OF SURGERY**

SUMMARY

Mrs. Pumphrey was a rich and emotional lady who had a cute pet called Tricky. She loved him so much that she overfed him. Tricky had put on a lot of weight which made him lethargic. When doctor Herriot saw the fat dog like a bloated sausage he was shocked. He made a plan and told Mrs. Pumphrey that Tricky needed treatment for an ailment which was possible only in hospital. The doctor knew that Mrs. Pumphrey would not be able to keep the dog on a proper diet. When the greedy dog went to the hospital, he had to remain hungry if he was slow to approach for food. He was given food at fixed intervals. Soon he shed off a lot of his body weight and became quite active.

When Tricky was at home he was pampered by Mrs. Pumphrey. He had a luxurious life when he was served with cream cake chocolate and horlicks. But when he came to the doctor he became all right. When Mrs Pumphrey saw her active dog she thanked the doctor and felt that it was a triumph of surgery.

Answer the following questions in 30-40 words:

1. How did Tricky become an accepted member of the gang and start enjoying the company of other dogs?
2. How did Mrs. Pumphrey show her concern for Tricky when he was at the surgery?
3. Mrs. Pumphrey said, " This is a triumph of surgery." What do you think about this statement
4. Do you think Mrs. Pumphrey must have changed her way of caring for Tricky? Why or why not?
5. What did Mrs. Pumphrey do when Tricky was in the hospital?

HINDI



1. पाठ ' मीरा के पद ' के आधार पर भगवान विष्णु के दशावतारों पर चित्र सहित एक सुंदर प्रोजेक्ट तैयार कीजिए।
2. अपनी दिनचर्या का टाइम-टेबल बनाएँ और किसी एक अविस्मरणीय दिन का अनुभव बताते हुए डायरी लिखें।
3. किन्ही बीस (20) मुहावरों के अर्थ लिखकर वाक्य बनाएँ जिन में शारीरिक अंगों , रंगों और फलों का उल्लेख हुआ हो।
4. प्रतिदिन समाचार पत्र पढ़िए और उसमें से सरल , मिश्र एवं संयुक्त वाक्यों के 10-10 उदाहरण चुनकर अपनी कॉपी में लिखें।
5. दी गई कार्य पत्रिकाएँ अपनी कॉपी में करें।

1. अनुच्छेद लेखन

(i) प्रदूषित गंगा नदी

संकेत बिंदु - • आर-था का प्रतीक • उद्गम • लोभ
• प्रदूषित होने के कारण • सरकारी प्रयास
• उपाय

(ii) समय का सदुपयोग

संकेत बिंदु - • समय का महत्व • समय नियोजन
• दुरुपयोग की हानियाँ

(iii) वन और हमारा पर्यावरण

संकेत बिंदु - • प्रदूषण की समस्या • वृक्षों का महत्व
• व्यक्तिगत एवं सरकारी प्रयास

लेखन कौशल

1. अपने क्षेत्र के थानाध्यक्ष को पत्र लिखिए कि आपके क्षेत्र में चरभराती न्याय व्यवस्था के कारण दिनदहाड़े चोरी और डकैती के मामले बढ़ रहे हैं, समस्या पर ध्यान दिलाने का आग्रह करते हुए अनुरोध कीजिए कि नागरिकों की सुरक्षा का ध्यान रखते हुए उचित कदम उठाए जाएँ।

2. अपने विद्यालय की संस्था 'पहरेदार' की ओर से जल का दुरुपयोग रोकने का आग्रह करते हुए एक आकर्षक विज्ञापन तैयार कीजिए।

3. निम्नलिखित में से किसी एक विषय पर लघुकथा लिखिए।

(i) सूझबूझ

(ii) भारने वाले से बचाने वाला बड़ा होता है।

MATHS

DEAR STUDENTS,

- ❖ Complete the chapters done in the class.
- ❖ Complete the following activities in Maths Practical file:
 - Activity 2: To draw the graph of a quadratic Polynomial.
 - Activity 3 : To verify the conditions of consistency/inconsistency for a pair of linear equations in two variables by graphical method.
- ❖ During your summer vacations, be innovative and creative to prepare a project on the given topics according to the roll no. allotted..
 - ✚ Use A4 size colored sheets.
 - ✚ Take help from internet to gather the information required for your project.
 - ✚ Use colors and pictures to make your project attractive
- **Exploring Fibonacci Sequence (Roll no 1 to 15)**
 - a) History and Explanation
 - b) Fibonacci numbers in nature
 - c) Fibonacci sequence in life
 - d) Real life Examples/Models Instructions
- **Exploring Pascal's Triangle (Roll no 16 to 30)**
 - a) History and Explanation
 - b) How do you construct it?
 - c) Practical uses of Pascal's Triangle.
 - d) Real life Examples/Models
- ❖ Complete the under given assignments on A4 size sheet and keep that safe with you in a clear bag.



SECTION – A

1. For what value of k, system of equations $x + 2y = 3$ and $5x + ky + 7 = 0$ has a unique solution. 1
2. Does the point (2, 3) lie on line of graph of $3x - 2y = 5$. 1

SECTION – B

3. For what values of a and b does the pair of linear equations have infinite number of solutions. 2
 $2x - 3y = 7$
 $ax + 3y = b$
4. Solve for x and y 2
 $0.4x + 0.3y = 1.7$
 $0.7x - 0.2y = 0.8$

SECTION – C

5. Solve for x and y 3
 $x + y = a + b$
 $ax - by = a^2 - b^2$
6. Sum of the ages of a father and the son is 40 years. If father's age is three times that of his son, then find their ages. 3

SECTION – A

1. If α and β are zeroes of a quadratic polynomial $p(x)$, then factorize $p(x)$ 1
2. If α and β are zeroes of $x^2 - x - 1$, find the value of $\frac{1}{\alpha} + \frac{1}{\beta}$ 1

SECTION – B

3. If α and β are zeroes of $x^2 - (k + 6)x + 2(2k - 1)$. Find the values of k if $\alpha + \beta = \frac{1}{2}\alpha\beta$. 2
4. Find a quadratic polynomial one of whose zeroes is $(3 + \sqrt{2})$ and the sum of its zeroes is 6. 2

SECTION – C

5. Find values of a and b if $(x^2 + 1)$ is a factor of the polynomial $x^4 + x^3 + 8x^2 + ax + b$. 3
6. If truth and lie are zeroes of the polynomial $px^2 + qx + r$, ($p \neq 0$) and zeroes are reciprocal to each other, 3
 - (i) Find the relation between p and r .
 - (ii) Which value do you learn from this question?

SECTION – D

7. On dividing the polynomial $x^3 + 2x^2 + kx + 7$ by $(x - 3)$, remainder comes out to be 25. Find quotient and the value of k . Also find the sum and product of zeroes of the quotient so obtained. 4
8. If β and $\frac{1}{\beta}$ are zeroes of the polynomial $(\alpha^2 + \alpha)x^2 + 61x + 6\alpha$, find values of β and α . 4

SCIENCE



During your summer vacations we expect you to do the following tasks:

- ❖ Complete notes and question answers of the chapters done in class.
- ❖ Cut a plastic bottle in your desired shape and plant a sapling in that.

- ❖ Do the following work according to Roll numbers allotted.
 - In a scrap file draw all the ray diagrams of Concave mirror, Convex mirror, Concave lens and Convex lens and decorate your file beautifully. Roll no. 1-10
 - Make a model of alimentary canal Roll no. 11-20
 - Make working model of lungs using balloon and pipe. Roll no. 21-30
- ❖ Complete the under given assignments on A4 size sheet and keep that safe with you in a clear bag

**SANT NIRANKARI PUBLIC SCHOOL
AVTAR ENCLAVE, PASCHIM VIHAR
CLASS X
BIOLOGY WORKSHEET- I
TOPIC: NUTRITION**

- ❖ Name the following
 1. The process responsible for the transfer of energy from outside source to the body of an organism.
 2. The cells that surround the stomata pore.
 3. Cellular energy reserve in plants and animals.
 4. Plant cell organelle that can absorb solar energy.
 5. Medium required for activity of pancreatic juice.
 6. Mode of nutrition in amoeba and fungi.
 7. Gland that secretes digestive enzymes as well as hormones.
 8. Nitrogen needed by plants is taken in the form of.
 9. Five examples of parasites.
 10. Three examples of saprophytes.
 11. Organisms who derive nutrition without killing them.
 12. The canal which extend from mouth to anus.
 13. A biological catalyst that breaks down the complex food into simple molecules.
 14. The movement which allow the food to pass forward in gut because of rhythmic contraction of muscles of alimentary canal.
 15. Site for absorption of water in alimentary canal.
 16. The muscles which regulate the exit of food from stomach.
 17. Largest part of alimentary canal.
 18. Site for complete digestion.
 19. The finger like projection of small intestine.
 20. Gradual softening of enamel and dentine is known as _____.
 21. Brushing of teeth removes _____.
 22. Masses of bacterial cell and food particles stick to the teeth to form _____.
 23. Microorganism invade the pulp and causes _____.

SANT NIRANKARI PUBLIC SCHOOL
AVTAR ENCLAVE, PASCHIM VIHAR
CLASS X
P+C WORKSHEET- I
CH- CHEMICAL REACTION AND EQUATION

1. Match the following with correct response.

(1) Combination reaction	(A) $ZnO + C \rightarrow Zn + CO$
(2) Decomposition reaction	(B) $2H_2O \rightarrow 2H_2 + O_2$
(3) Displacement reaction	(C) $2Mg + O_2 \rightarrow 2MgO$
(4) Redox reaction	(D) $Fe + CuSO_4 \rightarrow FeSO_4 + Cu$

- a. 1-D, 2-A, 3-C, 4-B
b. 1-C, 2-B, 3-D, 4-A
c. 1-B, 2-D, 3-A, 4-C
d. 1-A, 2-C, 3-B, 4-D

2. The chemical formula of lead sulphate is

- a. Pb_2SO_4
b. $PbSO_4$
c. $Pb_2(SO_4)_3$
d. $Pb(SO_4)_2$

3. The color of zinc metal is

- a. Reddish brown
b. Silvery
c. white
d. Grey

4. When you place an iron nail in copper sulphate solution, the reddish-brown coating formed on the nail is

- a. Copper
b. Iron
c. iron sulphate
d. copper sulphate

5. Oil and fat containing food items are flushed with nitrogen. Why?

6. Predict whether gold can displace copper from copper sulphate solution.

7. In the reaction $PbS(s) + 4H_2O_2(aq) \rightarrow PbSO_4(s) + 4H_2O(l)$, which is oxidizing agent and which is reducing agent?

SOCIAL SCIENCE

During your summer vacations we expect you to do the following tasks:-

- ❖ Complete notes and question answers of the chapters done in class.
- ❖ Read History chapter 2 [The Nationalism in India] and Civics chapter 1 [Power Sharing].
- ❖ Prepare a project file with following details:
 - The total length of the project report should not be more than 10-12 written pages of A-4 size sheet.
 - The project report should be handwritten and credit will be awarded to original drawings, illustrations and creative use of eco-friendly material.

➤ The project report should be developed and presented in this order

- ✚ Cover page showing project title, student information, school and year.
- ✚ List of contents with page numbers.
- ✚ Certificate page
- ✚ Chapters with relevant headings.
- ✚ Summary and conclusions based on findings.
- ✚ Bibliography: should have the Title, author, publisher and if a website the name of the website with the specific website link which has been used.



➤ Every student has to compulsorily undertake the project on the following according to roll no. allotted

1. Consumer Awareness (Roll no. 1 – 10)

The students must write about following key matter:

- a. Enactment of COPRA 1986 and its benefits
- b. Various Consumer Rights
- c. Role of WTO in protection of Consumers

2. Social Issues (Roll no. 11- 20)

The students must write about following key matter:

- a. Social issues in Indian Society
- b. Reforms initiated to combat the social issues
- c. Role of Popular leaders and movements

3. Sustainable Development (Roll no. 21 - 30)

The students must write about following key matter:

- a. Need of development.
- b. Importance of development
- c. Policies initiated to adopt measures for Sustainable Growth.

❖ Complete the given assignments on A-4 size sheets and keep them safe with you in a clear bag.

**SANT NIRANKARI PUBLIC SCHOOL
AVTAR ENCLAVE, PASCHIM VIHAR
CLASS X
WORKSHEET 1
CH- THE RISE OF NATIONALISM IN EUROPE**

1) Who made the famous remark 'When France sneezes, the rest of Europe catches cold'?

- | | |
|---------------|-------------------|
| a) Metternich | b) Mazzini |
| c) Garibaldi | d) Louis Philippe |

2) The Treaty of Constantinople was signed in _____

- a) 1835
- b) 1735
- c) 1834
- d) 1832

3) The famous Italian Revolutionary Giuseppe Mazzini was born in _____ in 1807.

- a) Turin
- b) Rome
- c) Genoa
- d) Atlanta

4) Giuseppe Mazzini founded the secret underground society named 'Young Europe' in _____

- a) Marseilles
- b) Berne
- c) Vienna
- d) Brussels

5) _____ believed that established, traditional institutions of state and society should be preserved.

- a) Conservatives
- b) Liberals
- c) Democrats
- d) None of the above

6) The Bourbon dynasty, which had been deposed during the French Revolution, was restored to power after signing the Treaty of _____

- a) Vienna
- b) Constantinople
- c) Marseilles
- d) Prussia

7) _____ regimes imposed censorship laws to control what was said in newspapers, books, plays and songs and reflected the ideas of liberty and freedom

- a) Liberal
- b) Conservative
- c) Democratic
- d) Secular

8) Artists of the time of the French Revolution personified _____ as a female figure.

- a) Socialism
- b) Liberty
- c) Autocracy
- d) None of the above

9) The ideas of la patrie means _____.

- a) Motherland
- b) Fatherland
- c) Citizens
- d) Monarchy

10) The Estates General was elected by the body of active citizens and renamed the _____

- a) Provincial Assembly
- b) State Assembly
- c) National Assembly
- d) None of the above

11) The first political experiment in liberal democracy took place in _____.

- a) German
- b) France
- c) Italy
- d) Great Britain

12) A secret society named Young Italy was established in

- a) Marseilles
- b) Berne
- c) Zurich
- d) Genoa

**SANT NIRANKARI PUBLIC SCHOOL
AVTAR ENCLAVE, PASCHIM VIHAR
CLASS X
WORKSHEET 2
CHAPTER- RESOURES AND DEVELOPMENT**

1) All the minerals, water resources, forests, wildlife, land within the political boundaries and oceanic area up to _____ from the coast termed as territorial water and resources therein belong to the nation.

- a) 20 nautical miles
- b) 25 nautical miles
- c) 15 nautical miles
- d) 12 nautical miles

2) In June 1992, more than 100 heads of states met in _____ in Brazil, for the first International Earth Summit.

- a) Rio de Janeiro
- b) São Paul
- c) Brasilia
- d) Curitiba

3) The Rio Convention endorsed the global Forest Principles and adopted _____ for achieving Sustainable Development in the 21st century.

- a) Agenda 20
- b) Agenda 21
- c) Agenda 19
- d) Agenda 22

4) Which of the following statements about Agenda 21 is true?

- a) It aims at achieving global sustainable development.
- b) It is an agenda to combat environmental damage, poverty and disease through global cooperation.

c) One of the major objectives of Agenda 21 is that every local government should not draw its own local Agenda 21.

d) Option (a) and (b).

5) The states of Jharkhand, Chhattisgarh and Madhya Pradesh are rich in minerals and _____ deposits.

a) Coal

b) Gold

c) Silicon

d) None of the above

6) The state of Rajasthan is very well endowed with solar and _____ energy but lacks in water resources.

a) Geothermal

b) Hydro

c) Wind

d) Tidal

7) _____ was the famous Indian freedom fighter who made an important observation about resource conservation – “There is enough for everybody’s need and not for anybody’s greed”

a) Mahatma Gandhi

b) Jawaharlal Nehru

c) Subash Chandra Bose

d) Dr B.R. Ambedkar

8) The Brundtland Commission Report published in _____, shared ideas about sustainable development and how it could be achieved.

a) 199

b) 1987

c) 1992

d) 1977

9) About _____ of India’s land area is plain, which provides facilities for agriculture and industry.

a) 43%

b) 53%

c) 34%

d) 45%

10) _____ account for 30% of the total surface area of India.

a) Deserts

b) Mountains

c) Plains

d) Plateaus

11) Land which is left without cultivation for one or less than one agricultural year is known as _____.

a) Gross cropped area

b) Culturable waste land

c) Current fallow

d) Grazing land

12) Land which is left uncultivated for more than 5 agricultural years is known as _____.

- a) Culturable waste land
- b) Barren land
- c) Pastures
- d) Fallow Lands

13) The pattern of the net sown area varies greatly from one state to another. It is over 80 per cent of the total area in _____.

- a) Madhya Pradesh
- b) Assam
- c) Rajasthan
- d) Punjab

INFORMATION TECHNOLOGY

Dear students

Design a beautiful project file for Information Technology (402) subject and keep all the A4 size sheet and project work in the file.

Part – A Research Work

Q.1 Create your own blog using the blogger.com about the experience of ‘**Online learning versus School learning**’.

Take the print out of your blog and keep it in Project file.

Part – B Project Work

Q.2 Neatly depict barriers in communication on A4 size sheet

Q.3 Design a document in MS - Word on the topic “Electronic typewriter Vs Word Processor” and perform the following:

- a) Insert Header – School’s name and logo
- b) Insert Footer- Page Number in the center
- c) Apply page border and shading
- d) Insert a shape and write the heading inside it
- e) Fill colour inside the shape
- f) Insert a picture from the gallery
- g) Apply bullets and write 5 points about the topic
- h) Format the text properly
- i) Find the word Electronic typewriter and replace it with E-Typewriter
- j) Perform spell and grammar check



Q.4 Create a presentation on the topic “The Russia – Ukraine War”.

- ❖ Design at least 12 slides with design themes.
- ❖ Analysis of data should be there
- ❖ Use appropriate Animations
- ❖ Use appropriate Transitions

Parameters: Creativity, Originality, Overall presentation

**** You can take the help of Internet.**

SEWA PROJECT

- ❖ Prepare the project according to Roll numbers allotted.
- ❖ Make your project on A4 size sheets and file it in your decorated cobra file.
- ❖ You can use pictures and colors to make your project attractive.
 - Importance of exercise Roll no. 1-3
 - Healthy diet Roll no. 4-6
 - Air pollution Roll no. 7-9
 - Water pollution Roll no. 10-12
 - Energy conservation Roll no. 13-15
 - Swatch Vidyalaya swatch Bharat Roll no. 16-18
 - Dignity of labor Roll no. 19-21
 - Care for homeless children Roll no. 22-24
 - Being safe and responsible Roll no. 25-27
 - Reduce, Recycle, Reuse and Respect Roll no. 28-30

ART AND CRAFT

- ❖ Fabric Painting (Paint white T- shirt OR white pillow cover with fabric colors)
- ❖ Do page no.-109 in your Art File.
- ❖ Decorate all your 6 cobra files as instructed in class.

