



SALWAN PUBLIC SCHOOL

Sector-15 (II), Gurugram

Holiday Home Work

(2019-20)

CLASS – X

English

The following tasks are to be done in the English language notebook.

1. The road that leads to your market is broken and full of potholes. Mosquitoes and flies breed there. Write a letter in 150 words to the editor of a local newspaper drawing attention of the concerned authorities to get the road repaired. You are P.V. Prabhu/Prabha, 112, Aram Nagar, Delhi.
2. We were eager for this Children's Day outing, longing to be out with our buddies for an entire day. But we never imagined that the day had something else in store for us. We heard a loud sound and then..... (200 words)
3. Mr Satish kaul is the Sports Instructor in Geetha Convent, Narasapur. The Principal of the school asks Mr Kaul to place an order for buying cricket kits, volleyball nets, footballs, badminton racquets and other necessary sports accessories required. Mr Kaul decides to place an order with Meera Lohia Sports, Narasapur. Write the order – letter in your own words on his behalf.
4. Gap filling exercise:
 - i) Amitabh Bachchan is a)_____ of the greatest actors this country has produced. His fluency, his gift of timing, his command b) _____the language is unparalleled. Sometimes his historic talents too are among the best this country c)_____produced. Even now, he is considered to be the d)____ popular actor of the country. He has been declared as “The Actor of the Millennium” by the BBC poll.
 - ii) Developed countries a)_____ been asked to alter their life styles. The shift in energy source b) _____ be backed by subsidies to c) _____ who produce clean energy and the countries d)_____ to look at the use of biofuel.
 - iii) The modern student a)_____ the importance b)_____ physical exercises. He spends one to two hours in open air c)_____ he takes part in different sports. However, care should d)_____ not to overstrain e)_____ body.
5. Editing/Omission Exercise
 - i) In the prisoner's room a candle is burning dimly. A prisoner himself sat by the table. Only him back, the hair by his head, and his hands are visible from outside through any window.

eg.	Is	was
a)		
b)		
c)		
d)		
e)		
 - ii) So great is our passion with doing things ourselves, so we were becoming increasingly less dependent for specialized labour . The balance among the two should be maintained.

eg.	With	for
a)		
b)		
c)		
d)		

- iii) All afternoon, usual line of tourists, eg. Afternoon, the usual
 from around world has descended a)
 into cramped, rock-cut tomb, some b)
 26 feet underground pay their c)
 homage to the king. They gazed the d)
 murals on the walls.
- iv) For first time in human history, there eg. For the first
 is growing worldwide consciousness a)
 that the earth itself a living organism an b)
 enormous being which we are parts. c)
 Its metabolic needs should respected and d)
 preserved.

6. Reordering

- i) Only/venomous/300 out/ 27000 species/ of the/ known /are
 ii) Which is/ yellow liquid/ water/ snake venom/ 90% of/ is
 iii) Expelled/ poison/ gland/ that is/ it is/ from the/ a substance
 iv) Feared by/ snakes are/ in our/ worshipped and/ many/ country
 v) Tongue, lips and vocal cords/ people affected/ can communicate/either with
 limbs/with a paralytic stroke
 vi) To answer/ some can/ their eyes/ even blink
 vii) Nervous system/ to the voluntary/due to extensive damage/is impossible/ but in a
 few/ even a small gesture
 viii) Are/ responsible/we/for/solely/degradation/environmental

7. Short Answer Questions:

- a) Why did Lencho not want the money to be sent through mail?
 b) Do you think that Lencho was right to call the post office employees a bunch of crooks? Why or why not?
 c) How does the character of Lencho inspire us to have faith in God and remain calm in difficult situation?
 d) What does Mandela mean when he says he is “simply the sum of all those African patriots”, who had gone before him?
 e) How did Mandela’s ‘hunger for freedom change his life?
 f) What promise does Mandela make in the beginning of his oath-taking speech?

- g) What freedom means to Mandela in childhood?
- h) Discuss how extreme behaviour can hasten the end of the world with respect to 'Fire and Ice'
- i) Is it right to confine wild animals into cages? Why or why not?
- j) What is so weird about the hyena and the crocodile?
- k) How does a leopard behave when he sees someone?

हिन्दी

निम्न कवियों का सम्पूर्ण जीवन परिचय , शिक्षा एवं रचनाएँ आदि का ए 3 साइज़शीट पर सचित्र एवं विस्तृत वर्णन अनुक्रमांक अनुसार करें-

अनुक्रमांक	कवि
1-10	चंदरबरदाई एवं विद्यापति
11-20	कबीरदास एवं जायसी
21-30	तुलसीदास एवं गुरुनानक देव
31-40	सूरदास एवं मीराबाई

संस्कृत

- सन्धि / समास आधारित वर्ग पहली संस्कृत की नोटबुक में बनाएँ।
निर्देश - व्याकरण पुस्तक मणिका से सहायता ले सकते हैं।
- व्याकरण पुस्तक मणिका संस्कृत व्याकरण से पृष्ठ 99 से 101 पर दिए गए पत्र पूर्ण कीजिए।
- व्याकरण पुस्तक मणिका संस्कृत व्याकरण से पृष्ठ 139 से 141 पर दिए गए चित्रों के आधार पर दस-दस वाक्य संस्कृत की नोटबुक में लिखिए।

Japanese

To be done on A 4 size sheet

1. Research on the Title Song of 2020 'Olympic Tokyo'.

Write an article for the same in Japanese Script with the English- Japanese version of the song.

OR

Write a Japanese MOVIE and write a Movie Review in 250 words.

2. a) Practice Kang. 60 -----76
b) Write particles and their usage

eg: (NO) is possessive particle

(MO) is also.

Write five sentences of each particle

- c) Practice Katakana from chapter 14-16

French

Letter Writing

- Q1. Ecrivez une lettre à votre ami(e) pour décrire le système éducatif français et indien.
- Q2. Écris une lettre d'environ 80 mots à ton ami(e), lui racontant un voyage que tu as fait pendant les vacances.
- Q3. Écris une lettre à votre ami(e) pour lui dire vos projets d'avenir.
- Q4. Ton cousin t'a écrit. Il te parle de son travail qu'il vient de trouver et combien cela lui plaît, ses responsabilités etc. Rédige cette lettre d'environ 80 mots.
- Q5. Ecrivez une lettre à vos grands-parents pour leur décrire tous ce que vous savez d'une bibliothèque, les avantages, les besoins, tous ce qu'on trouve là-bas etc.

Invitation Writing

- Q1. Pauline invite Denis passer quelques jours dans sa maison en Normandie. Rédige cette invitation: (environ 30 mots).
- Q2. Invitez votre cousine pour aller voir un film au cinéma.

Grammar

- Q1. Conjugations (5 everyday in all tenses done till date including plus que parfait)
- Q2. A table to be made with all pronouns done till date with their appropriate description.
- Q3. 10 vocabulary words (to be written and learnt with the gender in case of a noun)

Comprehension

One passage everyday either from Get Ready of Entre Jeunes Workbook.

Please Note – All the HW exercises are to be done in the notebooks assigned for the same.

Mathematics

The following questions are to be solved in Maths Register

- 1) Using Euclid's algorithm, find the HCF for pair of number 288, 120
- 2) On a morning walk, 3 persons step off together and their steps measure 36 cm, 40 cm and 45 cm respectively. What is the minimum distance each should walk so that each can cover the same distance and also find the number of steps taken by each?
- 3) Show that any positive odd integer is of the form $6q + 1$ or $6q + 3$ or $6q + 5$, for some integer q .
- 4) If the HCF of 55 and 90 is expressible in the form $55m - 99$, find the value of m .
- 5) Show that 15^n cannot end with the digit zero or 5 for any natural number n .
- 6) If $\frac{278}{2^3 \times m}$ has a terminating decimal expansion and m is a positive integer such that $2 < m < 9$, then find the values of m .
- 7) Find the decimal expansion of $\frac{13}{3125}$ without actual division.
- 8) Without performing actual division, state, which of the following rational numbers have a terminating decimal expansion.
 - (a) $\frac{125}{441}$
 - (b) $\frac{15}{243}$
 - (c) $\frac{77}{210}$
 - (d) $\frac{13}{1600}$
- 9) After how many decimal places will the rational number $\frac{1251}{1250}$ terminate?
- 10) Show that $5 + 3\sqrt{2}$ is an irrational number.
- 11) Prove that $3 + \sqrt{5}$ is irrational.
- 12) If α, β are the zeros of $x^2 + x + 1$, then find the value of $\frac{1}{\alpha} + \frac{1}{\beta}$.
- 13) Find the zeroes of $\sqrt{3}x^2 + 10x + 7\sqrt{3}$.
- 14) If $ax^2 + bx + c = 0$ has equal roots, what is the value of c ?
- 15) Form a quadratic polynomial, whose zeroes are $5 + \sqrt{2}$ and $5 - \sqrt{2}$.
- 16) Find the value of 'q' so that the equation $x^2 - 6x + q = 0$ has one root which is twice the other.

- 17) Obtain all other zeroes of the polynomial $2x^4 + 3x^3 - 5x^2 - 9x - 3$, if two of its zeros are $\sqrt{3}$ and $-\sqrt{3}$.
- 18) If α and β are zeroes of $p(x) = 3x^2 - 10x + 7$, find $\alpha^2 + \beta^2$.
- 19) If one zero of the quadratic polynomial $f(x) = 4x^2 - 8kx - 9$ is negative of the other, find the value of k .
- 20) Fill in the blank:
If sum of the squares of zeroes of the quadratic polynomial $f(x) = x^2 - 8x + k$ is 40, then find the value of k is .
- 21) Find the zeroes of a quadratic polynomial $x^2 - 7x + 10$ and verify the relationship between the zeroes and its co-efficients.
- 22) If the product of zeros of the quadratic polynomial $p(x) = (k - 2)x^2 - 4x + k$ is 3, then find the value of k .
- 23) If α and β are zeroes of $P(x) = 3x^2 - 10x + 7$, find $\alpha^2 + \beta^2$.
- 24) If α and β are the zeroes of $3x^2 + 5x - 2$, then form the quadratic polynomial whose zeroes are 2α and 2β .
- 25) Factorise the quadratic polynomial using the splitting the middle term. $t^2 - 2t - 8$ **and** find the zeroes.
- 26) Find a, b for which the following system of linear equation has infinite number of solutions:
 $2x + y = 5; (a + b)x + (a - 2b)y - 15 = 0$.
- 27) For the pair of equations $\lambda x + 3y = -7, 2x + 6y = 14$, to have infinitely many solutions, the value of λ should be 1. Is this statement true?
Give reasons.
- 28) Is the system of linear equations $2x + 3y - 9 = 0$ and $4x + 6y - 18 = 0$ consistent? Justify your answer.
- 29) Determine a and b for which the following system of linear equations has infinite number of solutions $2x - (a - 4)y = 2b + 1; 4x - (a - 1)y = 5b - 1$.
- 30) Check whether the following pair of equations are consistent:
 $5x - 8y + 1 = 0$
 $3x - \frac{24}{5}y + \frac{3}{5} = 0$
- 31) What is the value of k , for which the equations $2x + ky = 7, 4x + 8y = 14$ will represent coincident lines?

- 32) Solve the following system of linear equations graphically:

$$2x + 3y = -4, 5x - y = 7$$

Also shade the region enclosed by these lines and x -axis.

- 33) Solve graphically the following simultaneous equations:

$$3x + 2y = 13, x + 2y = 7$$

- 34) Eight times a two digit number is equal to three times the number obtained by reversing the order of its digits. If the ten's digit is subtracted from the unit's digit, the difference is 5. Find the number.

- 35) A motor boat whose speed is 20 kmph in still water, takes one hour more to go 48 km upstream than to return downstream to the same spot.

Find the speed of the stream.

- 36) Solve for x and y : $\frac{x+y}{xy} = 2, \frac{x-y}{xy} = 6$

- 37) If $(x+3)$ is a factor of $x^3 + ax^2 - bx + 6$ and $a+b=7$, find the values of a and b .

- 38) The sum of a two-digit number and the number obtained by reversing the digits is 66. If the digits of the number differ by 2, find the number.

- 39) A boat goes 24 km upstream and 28 km downstream in 6 hours. It goes 30 km upstream and 21 km downstream in 6 hours 30 minutes. Find the speed of the boat in still water.

- 40) Solve for x and y :

$$\frac{15}{x} + \frac{2}{y} = 17 \text{ and } \frac{1}{x} + \frac{1}{y} = \frac{36}{5}, x \neq 0, y \neq 0$$

- 41) If the median of the distribution given below is 28.5, find the values of x and y .

Class interval	Frequency
0 – 10	5
10 – 20	x
20 – 30	20
30 – 40	15
40 – 50	y
50 – 60	5
Total	60

- 42) The mean of the following frequency distribution is 57.6 and the sum of the frequencies is 50. Find the missing frequencies p, q .

C.I	Frequency
0 – 20	7
20 – 40	p
40 – 60	12
60 – 80	q
80 – 100	8
100 – 120	5
Total	50

- 43) Using step-deviation method, calculate the arithmetic mean of the following grouped distribution.

Class	Frequency
10 – 30	5
30 – 50	8
50 – 70	12
70 – 90	20
90 – 110	3
110 – 130	2
Total	50

- 44) In a village, number of members in 50 families are given the following frequency distribution.

Number of members	Number of families
1 – 3	2
3 – 5	8
5 – 7	6
7 – 9	10
9 – 11	5

11 – 13	5
13 – 15	7
15 – 17	4
17 – 19	3

Find the mode and mean of the above data.

- 45) The mean of the following distribution is 22. Find the missing frequency ' f '.

Class	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50
Frequency	12	16	6	f	9

Social Science

PROJECT WORK

Consumer Awareness

The following project has to be done in the Project File.

1) Objective:

The overall objective of the project work is to help students gain an insight and pragmatic understanding of the theme and see all the Social Science disciplines from interdisciplinary perspective. It should also help in enhancing the Life Skills of the students. Students are expected to apply the Social Science concepts that they have learnt over the years in order to prepare the project report. If required, students may go out for collecting data and use different primary and secondary resources to prepare the project. If possible, various forms of art may be integrated in the project work.

2) The **distribution of marks** over different aspects relating to Project Work is as follows:

Content Accuracy, Originality & Analysis: 2marks

Presentation & Creativity: 2marks

Viva Voce: 1mark

3) It is to be noted here by all the teachers and students that the projects and models prepared should be made from **eco-friendly products without incurring too much expenditure**.

4) The Project Report should be **handwritten** by the students themselves.

5) Theme: Gets familiarized with the rights and duties as a consumer; and legal measures available to protect from being exploited in markets.

6) Format

First Page: Title (in centre), Name, Class & Section (right side corner)

Second Page: Index

Third Page: Synopsis/Introduction

Body: Consumer Rights

Consumer Duties

Legal Protection

Case Study

Second Last Page: Analysis/Conclusion

Last Page: Bibliography

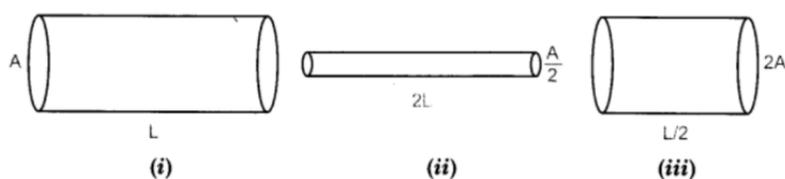
7) Make it **appealing**: use pictures, data, tables (if required)

Science

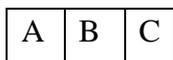
The following questions are to be written in Science Notebook

Physics

1. The figure shows below three cylindrical copper conductors along with their face areas and lengths. Explain in which conductor the resistance will be highest and why?



2. A hot plate of an electric oven connected to a 220 V line has two resistance coils A and B, each of 24 ohm resistance, which can be used in series and in parallel. Find currents in both cases? (**series-4.5, parallel-18.3**)
3. Two wires A and B are of equal length and have equal resistance. If the resistivity of A is more than that of B. Which wire is thicker and why?
4. Calculate the electricity bill amount for a month of 30 days, if following devices are used as specified:
- (a) 4 bulbs each of 60 W for 6 hours each day.
 - (b) A TV of 100 W for 1 hour each day.
 - (c) 3 tubelights each of 40 W for 8 hours each day.
- The cost per unit of electricity consumed is Rs. 2.50 . (Rs. **18.75**)
5. An electric iron of 1KW is operated at 220 V. Find which of following fuses that respectively rated at 1 A, 3A and 5 A can be used in it.
- (ii) A wire is cut into three equal parts and then connected in parallel. How its resistance and resistivity will get affected?
6. Draw a labelled diagram to represent magnetic field around a bar magnet. State the regions of uniform and non uniform magnetic field.
7. The given magnet is divided into three parts A, B and C



- (i) Name the parts where the strength of magnetic field is (a) maximum (b) minimum.
- (ii) How will the density of magnetic field lines differ at these parts?
8. What does the direction of thumb indicate in the right-hand thumb rule?
9. With the help of a labelled circuit diagram illustrate the pattern of field lines of the magnetic field around a current carrying straight long conducting wire. How is the right hand thumb rule useful to find direction of magnetic field associated with it?
10. Make a home made torch using LED , wires and a battery .

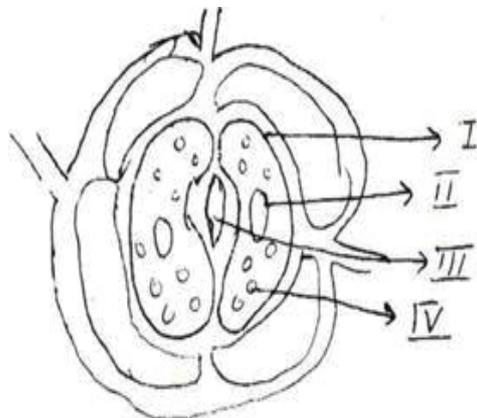
Chemistry

1. What is redox reaction? Write down a chemical reaction representing it.
2. In electrolysis of water:
 - (a) Name the gas collected at cathode and anode.
 - (b) Why is volume of one gas collected at one electrode is double of another?
 - (c) Why are few drops of dil. H₂SO₄ added to water?
3. In the reaction $\text{CuO (s)} + \text{H}_2 \text{(g)} \rightarrow \text{Cu (s)} + \text{H}_2\text{O (g)}$
 - (a) Name the oxidized substance.
 - (b) Name the reduced substance.
 - (c) Name the oxidizing agent.
4. Give reasons:
 - (a) White silver chloride turns grey in sunlight.
 - (b) Brown coloured copper powder on heating in air turns into black coloured substance.
5. Compound 'X' decomposes to form compound 'Y' and CO₂ gas. Compound Y is used in manufacturing of cement.
 - (a) Name the compounds 'X' and 'Y'.
 - (b) Write the chemical equation for this reaction.
6. A metal salt MX when exposed to light splits up to form metal M and gas X₂. Metal M is used to make ornaments whereas gas X₂ is used in making bleaching powder. The salt MX is used in black & white photography.
 - (a) Identify the metal M and gas X₂.
 - (b) Identify MX.
 - (c) Write down the chemical reaction when salt MX is exposed to sunlight.
7. A metal strip X is dipped in blue coloured salt solution YSO₄. After some time a layer of metal 'Y' is formed on metal strip X. Metal X is used in galvanization whereas metal Y is used for making electric wires.
 - (a) What could be metal 'X' and 'Y'?
 - (b) Name the metal salt YSO₄.
 - (c) What type of chemical reaction takes place between X and YSO₄? Write the balanced chemical equation.
8. White wash was being done at Mukesh's house. Mukesh saw that the painter added quick lime to drum having water. Mukesh touched outer surface of drum, it is unbelievably hot.
 - (a) Write the chemical equation for above reaction.
 - (b) What type of reaction is it?
 - (c) What is utility of this reaction?

9. What types of reactions are represented by following:
- $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
 - $2\text{Ca} + \text{O}_2 \rightarrow 2\text{CaO}$
 - $\text{Pb} + \text{CuCl}_2 \rightarrow \text{PbCl}_2 + \text{Cu}$
 - $2\text{FeSO}_4 \rightarrow \text{Fe}_2\text{O}_3 + \text{SO}_2 + \text{SO}_3$
 - $\text{Na}_2\text{SO}_4 + \text{BaCl}_2 \rightarrow \text{BaCl}_2 + 2\text{NaCl}$
10. Write down the balanced chemical equation for the following:
- Silver chloride is decomposed in presence of sunlight to give silver and chlorine gas.
 - Calcium oxide reacts with water to give lime water.
 - Sodium hydroxide reacts with hydrochloric acid to give sodium chloride and water.
 - Dil hydrochloric acid is added to copper oxide to give green coloured copper chloride and water.
 - Solution of barium chloride and sodium sulphate in water reacts to give insoluble barium sulphate and solution of sodium chloride.

Biology

- How is 'respiration' different from 'breathing'? Explain the process of aerobic and anaerobic respiration.
- Define double circulation in human beings.
 - Name the blood vessel that brings oxygenated blood to the human heart.
 - Which chamber of the heart receives oxygenated blood? Explain how is the oxygenated blood from this particular chamber sent to all the body parts?
- In the diagram given below, label the parts marked as I, II, III and IV and mention the function of the given structure



4. Compare the functioning of alveoli in the lungs and nephrons in the kidneys with respect to their structures and functioning?
5. What is the significance of emulsification of fats?
6. Why is the small intestine in herbivores larger than in carnivores?
6. How is transport of water in xylem tissue different from translocation of food in phloem tissue?
7. Explain the mechanism of breathing in human beings with the help of diagrams.
8. Draw a neat diagram of human alimentary canal and label the following parts where :
 - a. Churning of food takes place
 - b. Peristaltic movement is seen
 - c. Digestion is completed
 - d. Water and excess salts are reabsorbed
9. What are three steps in the process of photosynthesis? Write the name of end products of photosynthesis.
10. a. Differentiate between tropic and nastic movements in plants. Give one example of each.
 - b. Why plants bend towards the source of light?

Computer Application

Project Work for Term-I

Topic: HTML

This project is for the Term-I. The student is expected to complete up to Assignment-5 in summer vacations.

Assignment 1: Internet Basics

Learn basic terminology. Consider Internet use in daily life.

Assignment 2: History of the Internet

Raise awareness of inventions that shaped the Internet.

Assignment 3: About the World Wide Web

Investigate parts of a web browser. Learn why the World Wide Web was invented.

Assignment 4: What is HTML and CSS?

Gain a basic understanding of HTML, CSS and its importance in the world today.

Assignment 5: Seeking the Source

Inspect the source code of a web page. Decode the meaning of tags.

Assignment 6: Edit an HTML Document

Analyze a sample web page using an HTML Text Editor. Modify the tags.

Assignment 7: Edit the Style of an HTML Document

Modify the attributes of a web page to discover how CSS creates a consistent design.

Assignment 8: Plan a Web Page

Complete an organizer to plan a web page. Gather information, pictures, and websites.

Assignment 9: Start Building a Web Page

Code using HTML tags to add a title, heading, body, and horizontal rule.

Assignment 10: Format the Web Page Using CSS

Assign attributes to each element of the web page to set the style.

Assignment 11: Add Images and Format the Style

Add images to the web page. Format picture style, float, and margins using CSS.

Assignment 12: Create Hyperlinks (Internal & External)

Link to additional information using text and image hyperlinks.

Assignment 13: Add List and Tables on your Web Page

Add list and tables to display data.

Assignment 14: Are You Ready to Upload?

Review the web page using a checklist. Revise the code.

Assignment 15: Upload Your Web Page

Publish web page onto the Internet. (Optional)