Sachdeva Public School

Sector 13 Rohini

HOLIDAYS HOMEWORK

CLASS X

SESSION 2020-2021

PREFACE

"The anxious and unusual times bring unforeseen difficulties but the best of human nature can rise to the challenge."

We all have within us the strength, the patience and the passion to reach the stars to change the world. Let's not fear change; embrace it. Life is all about moving on, accepting changes and looking forward to what makes us more adaptable and stronger.

The Summer Break is scheduled from 1 June 2020 - 30 June 2020. Let's not forget that this year vacations are not meant to explore the world outside but present an opportunity to rediscover ourselves while staying home and being safe. Summer Vacation has always been considered to be the most desirable period looked forward by children when they can go beyond academics but let's not make it a challenging situation clouded with the gloominess of Corona Pandemic. So, embark on a journey of fun and adventure by reading books, exercising, meditating, dancing and channelizing your energy in a positive manner. In addition, maintain the momentum and rigour that has been built in the learning through the last few weeks.

Plan out and complete the holiday homework. In addition, revise the syllabus already completed and check the school website 'Online Learning' for Periodic Test – 1: Date sheet and Syllabus and make earnest and sincere preparation for the same.

So during this unique break when you are homebound, be a source of support and help to your parents, be positive, focused, self disciplined and do live life with enthusiasm and zeal.

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ENGLISH

Note: Attempt the given questions on A4 size sheets and make a folder:

1. Writing a letter to God for help not only shows Lencho's faith in God but also his lack of faith in humanity. Elaborate the statement in about 100 -150 words.

2. Hari Singh was just fifteen years old and an illiterate yet he understood the human psyche very well. Do you agree? Justify the statement in about 100-150 words.

3. Positive attitude in life can make the world a better place to live in. Do you agree or disagree? Express your views in about 100-150 words with reference to the poems 'Dust of Snow' and 'Fire and Ice'.

4. Nelson Mandela was overwhelmed with a sense of history. How did he pay tribute to the African patriots? Answer in about 100-150 words.

5. All parental acts are for the betterment of children. Justify the statement by taking examples from the lesson 'His First Flight'. Answer in about 100-150 words.

6. You are Anmol/Aanya. You took part in a medical camp organized in a remote village in Delhi by the Health Club of your school. You were surprised to find that most of the people there had no awareness about maintaining personal hygiene. Write a letter to the Editor of a national daily in about 150-200 words, expressing your concern and encouraging youngsters to initiate such campaigns in order to spread awareness about health and hygiene.

7. Modern Public School, Dwarka is planning to take a group of forty students on an outstation trip to Nainital by a deluxe bus. As Ajay Singh, Incharge of excursion and field trips, write a letter to the Manager of Global Travels, Nainital, enquiring about the relevant details of the package tour. Write your letter in about 150-200 words.

8. You are Pawan/Poonam, a resident of 45, Model Town, New Delhi. Last month you had purchased a television set from TV House, West Patel Nagar, Delhi. You are shocked to discover that it is not working properly. Write a letter in about 150-200 words to the Manager of TV House, complaining about the defects and asking him to either rectify the problem or to replace the television set.

9. You are Ayush Jain/Ayushi Jain, Sports Secretary of Abhinav Public School, Faridabad. Your school is holding its Annual Sports Meet on 15 September for which a plethora of

activities have been organised. Write a letter in about 150-200 words to the Manager of Rockfield Sports, placing an order for necessary sports items.

10. You are Nitesh Garg/Nishita Garg, a resident of E-102, Palam Vihar, Delhi. You are deeply concerned about an increase in the number of accidents caused due to illegal occupying of roads by roadside vendors. Write a letter in about 150-200 words to the Police Commissioner, Delhi, drawing his attention to the problem of encroachment of roads by roadside vendors.

11. You are Simran/Kshitij Oberoi. You recently had a shocking experience while commuting in a DTC bus and are appalled at the rude behaviour shown by the driver and the conductor. Write a letter in about 150-200 words to the General Manager, Delhi Transport Corporation, complaining about the erratic and irresponsible behaviour of the driver and the conductor.

12. **Art Integrated Project Work**

SUBJECT ENRICHMENT (GROUP ACTIVITY)

Designing Graffiti Wall on the Culture of Sikkim

"Culture is the characteristics of a particular group of people, defined by everything from language, religion, cuisine, social habits, music and art."

The students have to present the culture of Sikkim. They have to work in groups of five and each student will design his/her material on a separate A4 size sheet to be put up on Graffiti Wall in the form of a collage.

The Graffiti wall should include drawings and pictures on the following:

- Cuisine
- Festivals
- Art, dance and music
- Traditional dresses
- Languages spoken and translation of words like 'Hello', 'Welcome', 'Thank you', 'Please', 'Bye' etc. in the vernacular.

1. नोट :– निम्नलिखित प्रश्नों के उत्तर ए 4 आकार पृष्ठों पर लिखिए।

2. प्रश्न संख्या 12 को परियोजना कार्य के अंतर्गत रंगीन ए 4 आकार पृष्ठों पर कीजिए।

प्रश्न 1   निम्नलिखित शब्दों का समास विग्रह करके उनके भेद का नाम बताइए :–

वचनामृत, चौराहा, महात्मा, आमरण, गिरिधर

प्रश्न 2   निम्नलिखित विग्रहों के समस्त पद बनाकर समास का भेद बताइए :–

महान है जो काव्य, चार मासों का समूह, वन में वास, पीला अंबर, खटके के बिना

प्रश्न 3   निम्नलिखित मुहावरों का वाक्य में प्रयोग कीजिए :–

सुध–बुध खोना, सुराग न मिलना, जिगर के टुकड़े–टुकड़े होना, खुशी का ठिकाना न रहना, लोहे के चने चबाना

प्रश्न 4   रक्तवर्धक औषधि का विज्ञापन 25 से 50 शब्दों में तैयार कीजिए।

प्रश्न 5   'स्वास्थ्य जाँच शिविर' की उपयोगिता बताते हुए 25 से 50 शब्दों में एक विज्ञापन तैयार कीजिए।

प्रश्न 6   निम्नलिखित में से किसी एक विषय पर लगभग 80 से 100 शब्दों में अनुच्छेद लिखिए :–

(क) महानगरीय जीवन

- आज का शहरी जीवन
- सुविधाएँ
- समस्याएँ

(ख) मनुष्य में घटती मानवता

- मानवता का तात्पर्य
- उदाहरण (पौराणिक एवं ऐतिहासिक)
- घटने के कारण व समाधान

प्रश्न 7   तताँरा और वामीरो की कोई तीन चारित्रिक विशेषताएँ लिखिए।

प्रश्न 8   मीराबाई ने श्रीकृष्ण के रूप सौंदर्य का वर्णन किस प्रकार किया है ?

प्रश्न 9   'तोप' कविता का प्रतिपाद्य लगभग 100 शब्दों में लिखिए।

प्रश्न 10 अपने भाइयों का असली चेहरा पहचान लेने के बाद हरिहर काका की क्या मनोदशा हुई होगी ? कल्पना करके 60–70 शब्दों में लिखिए।

प्रश्न 11 कोलकाता में द्वितीय स्वतंत्रता दिवस किस प्रकार मनाया गया ? 'डायरी का एक पन्ना' पाठ के आधार पर लिखिए।

प्रश्न 12 भक्तिकालीन कवि कबीरदास अथवा मीराबाई का चित्र बनाते हुए उनके जीवन से संबंधित बिंदु 100–150 शब्दों में लिखिए।

अथवा

किसी पर्वतीय क्षेत्र के मनोहारी प्राकृतिक सौंदर्य का आकर्षक चित्र बनाते हुए वहाँ की प्राकृतिक सुंदरता का वर्णन 100–150 शब्दों में लिखिए।

संस्कृत

नोट – दत्तं गृहकार्यम् पृष्ठे कुरुत –

प्र01   अधोलिखितपदानाम् संधिं विच्छेदं वा लिखत –
वृक्षच्छिन्नम्, सत् + आचारः, अजन्ताः, मनोहरः, मुनिः + याति, हरिः + अस्ति, पुनरुवाच, शकोऽवदत, षण्णवतिः

प्र02   समयः –12:00, 3:15, 4:00, 2:15, 5:30, 12:15, 8:45, 9:30, 6:15, 8:15, 11:30

प्र03   अव्ययाः – वृथा, पुरा, विना, कुतः, बहिः, इदानीम्, अत्र, श्वः, कदा, उभयतः ।

1. त्वं ––––––––––– गमिष्यसि ?
2. समुद्रेषु वृष्टिः –––––––– ।
3. –––––––––– प्रातःकालः अस्ति।
4. –––––––––––अहम् प्रयागे गमिष्यामि।
5. परिश्रमेण ––––––––– जीवनं निरर्थकं।
6. ––––––––– एकः नृपः आसीत्।
7. सः बालः ––––––– आगमिष्यति।
8. गृहात् ––––––––– मा गच्छ ।
9. नगरं ––––––––– उद्यानानि सन्ति।
10. गंगा ––––––––– निर्गच्छति।

प्र04   पर्यायपदं लिखत – तनयः, हिमकरः, आम्रम्, कुटिलम्, पशुपतिः, वनम् ।

प्र05   'शुचिपर्यावरणम्' इति पाठस्य चित्रम् निर्माय एकं श्लोकं लिखत।

प्र06   कोरोना–कोविड–नवदशेति विषाणुतः सुरक्षार्थं पञ्च उपायाः सचित्रं लिखत।

प्र07   दूरदर्शने प्रसारिते पंच संस्कृत मुख्यसमाचारान् लिखत।

प्र08   विलोमपदं लिखत – निर्मलम्, दानवाय, अधुना, बुद्धिहीना, अन्तिकम्, वयस्य ।

प्र09   तद्भवशब्दानाम् तत्सम शब्दान् लिखत – भाप, काजल, धुँआ, पत्थर, सौ, दूभर ।

प्र010   प्रकृति–प्रत्ययौ विभज्य संयोज्य वा लिखत – धैर्यवान्, महत्त्वम्, बुद्धिमती, हनुमान्,
गुण + मतुप्, सम + त्व ।

प्र011   अधोलिखितवाक्यानां संस्कृतभाषायाम् अनुवादं कुरुत :––

1. आज लोग विद्या का महत्व जानते हैं ।
2. वे दोनों क्या चाहते हैं?
3. बच्चा शेर से डरता है।
4. वह नगर के चारों ओर घूमता है।
5. राम रावण के लिए काफी है।

प्र012   वाक्यानि शुद्धम् कुरुत ––

1. रामः मम मित्रः अस्ति।
2. एकः बालिका गच्छति ।
3. ग्रामस्य निकषा वृक्षाः सन्ति।
4. वयं पुष्पोत्सवं पश्यन्ति ।
5. सा मधुरम् फलानि खादति।

FRENCH

Note:
1. **Attempt questions 1 – 10 in fair notebook.**
2. **Question 11 is an individual activity, do it on a A4 size ivory sheet/coloured sheet.**
3. **Question 12 is part of your project.**

1. Complétez avec les articles:

   a. Mme. Roche va à l'église _____ dimanche avec _____ amis.
   b. C'est _____ ordinateur, c'est _____ ordinateur _____ fille.
   c. J'aime regarder _____ télé, écouter _____ musique et aller _____ cinéma.
   d. Non, je ne veux pas _____ café mais donne – moi _____ peu _____ thé, s'il te plaît.
   e. Ils n'ont pas bu _____ coca car ils aiment _____ thé glacé.

2. Mettez à la forme négative :

   a. Ma petite sœur a tout mangé.
   b. Parles – en!
   c. Tout le monde porte un manteau.
   d. Il est déjà dans la classe.
   e. Marie mange du chocolat et des bonbons.

3. Remplissez avec une préposition convenable:

   a. _____ Inde, nous vivons tous ensemble .
   b. Mes amis adorent jouer _____ guitare.
   c. Les fruits sont bons _____ la santé.
   d. Martha invite ses amis _____ elle.
   e. Elle se cache _____ l' arbre.

4. Remplacez les noms soulignés avec les pronoms:

   a. Elle donne les fleurs au bébé.
   b. Je vais à l'école avec Sanya.
   c. Tu as pris les clés du buffet ?
   d. La Fille danse avec ses amis.
   e. J'ai acheté deux livres pour mon frère.

5. Mettez aux temps qui convient:

   a. Aussitôt que nous _____ (descendre) du train, nous avons appelé un taxi.
   b. Si mon père vient tôt, nous _____ (se promener).
   c. _____ (répondre) à cette question, mon enfant!
   d. Dès qu'il _____ (acheter) les billets du concert, il téléphonera à son ami.
   e. Hier soir, ils _____ (aller) au théâtre.

6. Trouvez la question:

   a. La nappe est bleue.
   b. Cette jolie robe est en soie.

c. Je ne veux ni le pain ni le bonbon.

d. Parce qu'il fait chaud.

e. Elle en prend deux kilos.

7. Mettez les pronoms relatif simples ou composés:

a. Le cadeau _____ m'a envoyé est superbe.

b. Voilà le chien _____ il a peur.

c. Seema est mon ami _____ je vais à la piscine.

d. C'est un grand salon _____ elle a trouvé les clés.

e. Regarde mon cousin _____ j'ai acheté des romans.

8. Mettez le dialogue en ordre:

Akansha: Très bien.

Nandani: Regarde aussi les émissions sur TV5.

Akansha: J'ai besoin de ton aide.

Nandani: D'abord, lis des bandes dessinées , puis des romans! Fais attention aux expressions et consulte les livres de grammaire.

Akansha: Merci beaucoup.

Nandani: Comment t'aider?

Akansha: Tu sais, je fais beaucoup de fautes en français! Comment l'améliorer?

9. Complétez le texte avec les mots donnés ci - dessous:

(bête, le chemin, la forêt, village, regardant, étrange, ont hurlé, la nuit, vers, herbes)

Maya, une petite fille et son frère, Biru habitaient dans un _____. Un jour les deux enfants sont allés se promener dans _____. Ils ont passé quelques heures _____ les petits animaux. Soudain ils se sont rendus compte qu'ils avaient perdu _____ ! Ils avaient peur et _____ est tombée. Les enfants ne savaient pas quoi faire. Soudain ils ont vu une grande maison dans laquelle Maya et Biru sont rentrés lentement. Ils y ont vu des nains mangeant des _____ et parlant une langue _____ ! Un d'eux est venu _____ eux . Les enfants avaient peur et ils _____. En courant Biru est tombé. Maya était devant lui avec maman! Quel rêve ____!

10. Lire un roman pendant les vacances.

Écrivez une lettre à votre ami(e) en décrivant un roman que vous avez récemment lu.

11. Préparez une publicité pour Sikkim. <<refer: Entre Jeunes – class 9, Pg 58>>

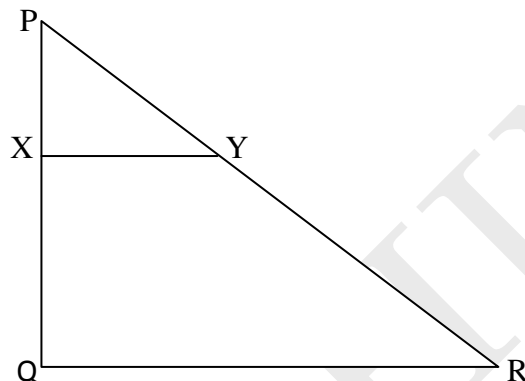12. Préparez un texte publicitaire pour Sikkim.

MATHEMATICS

Note: Attempt the given questions on sheets.

1. In a single throw of a pair of different dice, what is the probability of getting
   (i)   a prime number on each dice?
   (ii)   a total of 9 or 11?
2. A coin is tossed two times. Find the probability of getting atmost one head.
3. In the figure, PQR is a triangle right angled at Q and XY ∥ QR. If PQ = 6 cm, PY = 4 cm and PX:XQ = 1 : 2. Calculate the lengths of PR and QR.

4. A well of diameter 4 m is dug 14 m deep. The earth taken out is spread evenly all around the well to form a 40 cm high embankment. Find the width of the embankment.
5. A card is drawn at random from a well shuffled deck of playing cards. Find the probability that the card drawn is
   (i)   a card of spade or an ace.
   (ii)   a black king.
   (iii)   neither a jack nor a king.
   (iv)   either a king or a queen.
6. A toy is in the form of a cone mounted on a hemisphere of same radius 7 cm. If the total height of the toy is 31 cm, find its total surface area.
7. A cone, a hemisphere and a cylinder stand on equal bases and have the same height. Find the ratio of their volumes.
8. X and Y are points on the sides AB and AC respectively of a triangle ABC such that $\dfrac{AX}{AB}$ $=\dfrac{1}{4}$. AY = 2 cm and YC = 6 cm. Find whether XY is parallel to BC or not.
9. Two dice are thrown at the same time. Find the probability of getting different numbers on both the dice.
10. Water is flowing at the rate of 15 km / hour through a pipe of diameter 14 cm into a cuboidal pond which is 50 m long and 44 m wide. In what time will the level of water in the pond rise by 21 cm?

11. From a solid cylinder of height 14 cm and base diameter 7 cm, two equal conical holes each of radius 2.1 cm and height 4 cm are cut off. Find the volume of the remaining solid.

12. What is the probability of having 53 Mondays in a leap year?

13. State and prove Basic Proportionality Theorem.

14. A man goes 10 m due east and then 24 m due north. Find the distance from the starting point.

15. In ancient times, the Lepcha's of Sikkim were said to use yarn spun out of stinging nettle (sisnu) plant to weave clothes. Today cotton and woollen yarn are used together with vegetable dyes and synthetic colours.

Lepcha weaves or 'thara' is woven in vertical looms with a backstrap. Such looms are of small width. Traditional design with different colours are used to make tharas which are used for making bedspreads, bags, belts, curtains, cushion covers, table mats, tray cloths etc, apart from their traditional dress.

In the given figure you can see the frame of a lampshade. It is to be covered with a decorative cloth. The frame has base diameter of 80 cm and diameter of the top 50 cm, slant height is 63 cm. Find how much cloth is required for covering 40 such lampshades.

SCIENCE

Note: Attempt the given questions in fair notebook.

PHYSICS

1. Define the following terms:
   a) Pole
   b) Centre of curvature
   c) Radius of curvature
   d) Focus
   e) Focal length

2. An object is placed at a distance of 30cm from a convex mirror, the magnification produced is ½. Where should the object be placed to get the magnification of 1/3?

3. An electric iron has a rating of 750W, 220V. Calculate the
   a) current flowing through it, and
   b) its resistance when in use.

4. A convex lens of focal length 25cm and a concave lens of focal length 10cm are placed in close contact with each other. Calculate the lens power of this combination.

5. Two resistors 3ohm and unknown resistor are connected in a series across a 12V battery. If the voltage drop across the unknown resistor is 6V, find
   a) potential difference across 3 ohm resistance
   b) the current through unknown resistor 'R'
   c) equivalent resistance of the circuit.

CHEMISTRY

1. Draw a labelled schematic diagram to show the electrolysis of water. Why is the amount of gas collected in one of the test tube in the activity double of the amount collected in the other?

2. On heating a blue coloured powder of copper (II) nitrate in a boiling tube, copper oxide (black), oxygen gas and a brown gas 'X' is formed.
   a) Identify the brown gas 'X'.
   b) Write a balanced chemical equation of the reaction.
   c) Mention the type of reaction.

3. Give an example each for thermal decomposition and photochemical decomposition. Write relevant balanced chemical equation also.

4. A student dropped few pieces of marble in dil HCl contained in a test tube. The evolved gas was then passed through lime water, what change would be observed in lime water? What will happen if excess of gas is passed through lime water? Write balanced chemical equation for all the changes observed.

5. A strip of a metal X is immersed in the aqueous solution of salt YSO_4 blue in colour. After sometime, a layer of the metal Y from the salt solution is deposited on the strip of the metal X. The metal X is used for galvanization whereas the metal Y is employed in making electric cables.

a) Predict the metal X.
b) What could be the metal Y?
c) Name the metal salt YSO_4.
d) What is the nature of the chemical reaction taking place?

BIOLOGY

1. List the functions of following parts of a brain:
   a) Forebrain
   b) Midbrain
   c) Hindbrain
2. Differentiate between:
   a) Gigantism and dwarfism
   b) Sensory neuron and motor neuron
   c) Tropic movement and Nastic movement
   d) Cytokinin and abscisic acid
3. Give the role of the following:
   a) Pineal gland
   b) Parathyroid gland
   c) Thymus
   d) Hypothalamus
4. Design an experiment to demonstrate hydrotropism. Explain with the help of a diagram.
5. **Art Integration Activity** (Group Activity)

   The **flora** and **fauna** naturally covers a wide spectrum due to the altitude that varies from sea level to summits that touch the skies. **Sikkim** botanical and zoological richness is awe inspiring, boasting of more than 4000 species of plants and 30% of all the birds found in the Indian sub -continent.

   Study flora and fauna of Sikkim. Use this information to draw and colour three/ four or five tropic level of 'Food Chain'(aquatic or terrestrial). Take paper or card of 12cm x 8cm size, one card for single plant /animal.

   Note-
   - A group of 4-5 students will do the activity.
   - Students to coordinate section-wise among themselves for making their groups.
   - Each student has to participate and mention his/her name at the back of the card.

SOCIAL SCIENCE

Note: Attempt the given questions in ruled sheets.

HISTORY AND POLITICAL SCIENCE
Q1. State the significance of Poona Pact 1932.
Q2. Bring out the limitations of civil disobedience movement.
Q3. How did the image of Bharat Mata create a sense of collective belonging amongst the people?
Q4. Name and explain the two types of federations.
Q5. There are some units in the Indian Union which enjoy very little power. Justify.

GEOGRAPHY
Q1. Mention any three features of arid soil.
Q2. Name the crop used both as food and fodder.
Q3. What is 'slash and burn' agriculture?
Q4. What is soil erosion? Write two human activities that lead to soil erosion.
Q5. Explain five features of shifting cultivation.
Q6. Identify the type of soil found in Sikkim. How do the people of Sikkim practice farming here? Prepare a poster to show the type of farming practiced in this state. (A-4 size sheet)

ECONOMICS
Q1. What is the main criterion used by the World Bank in classifying different countries?
Q2. What are the major attributes of development considered by UNDP in making the Human Development Report? Explain the importance of each of these attributes.
Q3. Your friend is 150cm tall and his weight is 40kg. Find out his BMI and comment on his report.
Q4. What does sustainability of development mean? How can sustainable development be achieved?
Q5. Why does Kerala have low infant mortality rate?

COMPUTER APPLICATIONS

Note: Write the answers in the class register.

1. Refer to the given diagram and answer the question that follows.

    Write the parts of E-Mail Address against the labels- "**A**" and "**B**".

2. Classify the following into browsing protocols, e-mail protocols, remote login protocols, communication protocols and file transfer protocols.
    POP3, FTP, SSH, SCP, TCP/IP, HTTPS, SMTP, SFTP, TELNET, HTTP

3. Expand the following:
    (a) HTML   (b) URL   (c) WWW
    (d) MMS   (e) SMS   (f) DNS

4. Differentiate between the following:
    (a) Website and Webpage.
    (b) Web Browsers and Search Engines

5. Write the web extensions (top level domain names) given to a website of the following types of organizations:
    (a) Commercial
    (b) Government

6. Give the URL/Web Address of the following web services:
    (a) E-Banking
    (b) Social Networking
    (c) E-Shopping
    (d) E-Reservation

PAINTING

1. **Portfolio Cover**
   Topic - Folk Art of Sikkim (Draw and Colour given reference)
   Size - A3 Size Sheet
   Medium - Any

   - Paste Sikkim art sheet on the portfolio as beautiful cover.

2. **Sketches –** 10

   On Sketch book or A3 size sheet

3. **Composition –** 2

   Size – Half imperial sheet (Ivory /super white cartridge sheet)

Medium – Oil Pastel, Water colours or Poster colours

Draw and colour the given topics with your own imagination.

* Our Environment
* Party Scene

4. **Still Life –** 2

Size- Half imperial sheet (Ivory /super white cartridge sheet)

Medium – Oil Pastels, Water colours or Poster colours.

Draw and colour the given references of Still Life: