



HANSRAJ PUBLIC SCHOOL

SECTOR 6, PANCHKULA

HOLIDAY HOEMWORK

Session 2023-24, Class X



Message from the Principal



“Vacations mean a change of pace, a gentleness with ourselves, a time of rest and renewal and a time to stretch ourselves and encounter new people, new lands, new ways and new possibilities.”

We are extremely proud of you all for doing so well in this session so far. You have been putting your best in all the fields, academics, co-curricular activities, physical fitness and other school programs. The wonderful performance displayed by class X and XII students proved that a lot of hard work and perspiration has gone into achieving excellence in all aspects. I congratulate you all including teachers and hope that the future will hold higher success and achievement.

With summer heat on, it's time for much awaited summer vacations. It is the time for you to unwind, relax and find time to do things you enjoy the most. You can utilize the leisure time to enhance your existing skills or learning new ones and develop new and interesting hobbies as well.

It is also an excellent opportunity for you to become friends with books. Reading stories will help you expand your mind, your language and your understanding of people, different cultures and practices beyond your scope. Remember those who read always have an edge over others.

Enjoy this unrestricted time with your family members, listen to their stories about times before and share with them what you think about things around you. Try learning new skills and develop a hobby and indulge in activities which provide extensive exercise for your body and mind. Let technology enable you to gain insight into subjects of interest, use it as an aid to visit places virtually and learn about people who made a difference.

The most important thing, dear children, is to keep asking questions. Questions help us to find answers. You are full of potential and promise so gear up and spread your imagination and use these holidays to further enhance your skills and personality.

The holiday homework has been planned to help you to not only revise the concepts already learnt but also to explore and stretch your knowledge. So, enjoy and learn as you complete the tasks set for your homework.

Jaya Bhardwaj

Dear Children

Your summer holidays are here, you are surely looking forward to some exciting days ahead. It's time to relax and spend time with our family. Find time to look out for new experiences and observe things around. You can have fun at home or discover a new hobby. We have thoughtfully designed your Holiday homework for the summer break. Utmost care is taken to ensure that you use your creativity, imagination and innovative ideas. So go ahead and have loads of fun! Adapt, Support and Promote healthy eating habits celebrating the 'International Year of Millets'



General Instructions

- Complete and submit the holiday homework according to the dates given.
- Please maintain the quality of work done as the Holiday homework will be assessed on certain parameters, neatness and presentation being common for all the activities.
- Make sure that all syllabus done till May must be revised thoroughly in the last two weeks of June as it will help you to retain and adjust after the long break.

QUALITY TIME

- Follow a schedule during holidays. Be a good time manager.
- Minimize the use of gadgets
- Spend time with your parents and grandparents to gain wisdom from their experiences.
- Be a helping hand to your parents and learn the skill of shared responsibility.
- Read newspapers daily and stay updated with current affairs.
- Pursue your hobby enthusiastically.
- Water the plants and rejoice the beauty of nature.

- Appreciate nature and go for “Nature Walks”, plant trees and spread the message of “**SAVE EARTH**
SAVE SOIL SAVE ENVIRONMENT”
- Pray to almighty daily and thank for the blissful life that you enjoy.

HEALTHY REGIME

- Give prime importance to your health. Eat lots of fruits, do exercise and get into yoga
- Pledge for “Eat Right -Less Sugar, Less Oil and Less Salt”
- Wash hands frequently, especially before and after meal.
- Trim of nails and hair regularly.
- Drink a lot of liquid like water and other natural sources of water like tender coconut water, aam panna , lime water, Buttermilk etc.


ART OF GIVING : BE A SAMARITAN

No act of
KINDNESS
no matter
how small
is ever
wasted.
-Aesop

- Feed the poor and share things with needy people with love and enjoy The Art of Giving.
- Visit at least one out of these “Orphanage, Old age home, Blind home”, slum areas etc. and serve them with humility.



GREEN YOUR SCHOOL (Plants to be brought)

Name of Plant
Hibiscus


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ENGLISH

1. Pick up 2 articles from the newspaper and paste them in your notebooks. Write the letters to the editor of a national daily on the problems/ issues highlighted in the articles in your English notebooks.
2. Take a chart, cut it into half and fold it. Draft a newspaper containing pages as the instructions given below. Give a name to your newspaper also.

PAGE 1	National and International News
PAGE 2	Editorial, Articles and Content related with the School (HPS)
PAGE 3	Entertainment World (Recipes, word games, interesting facts and Quotations etc.)
PAGE 4	Sports news, Interviews of famous personalities and a write up on SDGs etc.

INSTRUCTIONS:

Whole of the content should be handwritten

Relevant pictures should be pasted. For pictures, printouts can be used.

Make sure that somewhere you use statistical data and its interpretation.

3. Do the following assignments from BBC in your English Notebooks:

MODULE	PAGE NO.	ASSIGNMENT SPECIFICATIONS
1 (Reading)	3	CA 1
	21	CA 7
	36	PA 4
	39	PA 5
	61	HA 5
2 (Writing)	108	CA 14
	110	PA 11
	138	CA 20

हिंदी

आवश्यक निर्देश:-

ग्रीष्मावकाश का संपूर्ण गृह कार्य एक स्क्रेप फाइल में करें।

प्र.1) निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के लिए सर्वाधिक उपयुक्त उत्तर वाले विकल्प चुनकर लिखिए:

जलवायु परिवर्तन के दौर में गरमी का बढ़ता प्रकोप अनेक चिंताएँ उत्पन्न कर रहा है। भूमि के सभी क्षेत्र गरमी के प्रकोप से समान रूप से प्रभावित नहीं होते हैं। जहाँ अधिक हरियाली है, पेड़ हैं, वहाँ गरमी की मार अपेक्षाकृत कम है, जहाँ पूरा क्षेत्र सीमेंट-कंक्रीट के निर्माणों और सड़कों से भरा पड़ा है, वहाँ गरमी अधिक होती है। प्रायः किसी भी शहर के लिए एक ही तापमान बताया जाता है, पर वास्तव में एक ही शहर के विभिन्न क्षेत्रों के तापमान में बहुत अंतर होता है। 10 डिग्री सेल्सियस या उससे भी अधिक का अंतर एक ही महानगर या बड़े शहर के भीतर देखा जा सकता है। वृद्ध और पहले से कमजोर स्वास्थ्य के लोगों पर चरम गरमी के दिनों में विशेष ध्यान देने की जरूरत है। गरमी के प्रकोप से उन लोगों की स्थिति और बिगड़ सकती है, जो पहले से साँस व हृदय संबंधी समस्याओं से त्रस्त हैं।

पर्यावरणविदों के अनुसार, शहरों में अधिक तापमान के कुछ प्रमुख कारण इस प्रकार हैं। आधुनिक शहरों का आकार-प्रकार वायु के बहाव के हिसाब से ठीक नहीं है गाँव में हवा रुकती नहीं है, लेकिन शहरों में ऊँची इमारतों की वजह से हवा रुकती है और बेचैनी बढ़ती है। शहर रेगिस्तान की तरह होने लगे हैं। कई जगहों पर किसी वनस्पति का नामोनिशान नहीं होता है, ऐसे इलाकों पर बारिश भी बेअसर होती है। वाष्पीकरण कम होता है और गरमी बढ़ जाती है। शहरों में मानव-जनित ऊष्मा भी बहुत बढ़ गई है। पेट्रोलियम पदार्थों के अधिकतम उपयोग से भी शहरी तापमान बढ़ रहा है। गरमी के प्रकोप को कम करने के लिए बसावट सुधारने से हरियाली बढ़ाने तक बहुत काम हैं, जो हमें करने चाहिए। स्थानीय प्रजाति के वृक्षों की संख्या बढ़ाने तथा परंपरागत जलस्रोतों की रक्षा पर ध्यान देना चाहिए।

i) शहरी क्षेत्रों में अधिक तापमान का कारण है?

- a) शहरों में बहुमंजिला इमारतों का होना
- b) शहरों में पक्की सड़कों का जाल होना
- c) शहरों में हरियाली का असमान रूप में पाया जाना
- d) शहरों में सीमेंट कंक्रीट के निर्माण का अधिक होना

ii) शहरी क्षेत्रों में असमान तापमान का क्या कारण है ?

- (a) हरियाली की तुलना में सीमेंट कंक्रीट का अधिक होना
- (b) हरियाली की तुलना में सीमेंट कंक्रीट के निर्माण का अधिक होना
- (c) शहरों में हरियाली का असमान अनुपात
- (d) शहरों में हरियाली का कम होना

(iii) गरमी के प्रकोप से किन लोगों पर विशेष ध्यान देने की जरूरत है ?

- (a) कमजोर लोगों पर
- (b) वृद्ध लोगों पर
- (c) वृद्ध व कमजोर स्वास्थ्य के लोगों पर

(d) साँस व हृदय संबंधी समस्याओं से ग्रसित लोगों पर

(iv) परंपरागत जलस्रोतों का उचित विकल्प है :

- (a) कुआँ, पोखर, नलकूप
- (b) कुआँ, हैंडपंप, पोखर
- (c) कुआँ, तालाब, नलकूप
- (d) कुआँ, तालाब, बावड़ी

(v) निम्नलिखित कथन (A) तथा कारण (R) को ध्यानपूर्वक पढ़िए। उसके बाद दिए गए विकल्पों में से कोई एक सही विकल्प चुनकर लिखिए।

कथन (A) गाँव में हवा रुकती नहीं है, लेकिन शहरों में हवा रुकती है।

कारण (R): आधुनिक शहरों का आकार-प्रकार वायु के बहाव के हिसाब से ठीक नहीं है।

- (a) कथन (A) तथा कारण (R) दोनों गलत हैं।
- (b) कथन (A) गलत है, लेकिन कारण (R) सही है।
- (c) कथन (A) सही है, लेकिन कारण (R), कथन (A) की गलत व्याख्या करता है।
- (d) कथन (A) तथा कारण (R) दोनों सही हैं तथा कारण (R), कथन (A) की सही व्याख्या करता है।

प्र.2 उपयुक्त मुहावरे से रिक्त स्थान की पूर्ति कीजिए—

1. उसे शिक्षक की नौकरी अवश्य मिल जाएगी, क्योंकि उसने हमेशा-----।

- (i) जी तोड़ मेहनत करना
- (ii) बीड़ा उठाना
- (iii) बाएँ हाथ का खेल होना
- (iv) पत्थर की लकीर होना

2. उसके घर की चकाचौंध देखकर मैं तो-----रह गया।

- (i) सुध- बुध खो देना
- (ii) हक्का-बक्का रहना
- (iii) दाँत पीसना
- (iv) आग-बबूला होना।

3. बड़े जब बात कर रहे हों तो बच्चों को बीच में-----अच्छी बात नहीं है।

- (i) टूट पड़ना
- (ii) खरी खोटी सुनाना
- (iii) टाँग अडाना
- (iv) नमक मिर्च लगाना

4.-----करके उसने सफलता प्राप्त की है।

- (i) आकाश पाताल एक करना
- (ii) आकाश के तारे तोड़ना
- (iii) आकाश-पाताल का अंतर
- (iv) आकाश से बातें करना

5. उस बेचारी का कोई नहीं है। अब तो उसका पुत्र ही उसके लिए----- है।

- (i) आँख का काँटा
- (ii) आँख का तारा
- (iii) अंधे की लाठी
- (iv) चिराग तले अँधेरा

6. रमेश सरकारी नौकरी के लिए इधर उधर-----रहा है।

- (i) हवा खाना
- (ii) खाक छानना
- (iii) मेहनत करना
- (iv) दादागिरी करना

7. मेरे पिताजी ने यह कार अपनी----- से खरीदी है।

- (i) खेती करके
- (ii) सूझ-बुझ
- (iii) गाढ़ी कमाई
- (iv) परिश्रम

8. सोहन एक अच्छा व्यापारी है। वह-----खूब जानता है।

- (i) बाट जोहना
- (ii) आँखों में धूल झाँकना
- (ii) दो से चार बनाना
- (iv) आड़े हाथों लेना

9. प्रायः उधार लेने के बाद लोग-----निकल जाते हैं।

- (i) ढाढ़स बढ़ाकर
- (ii) तू तू मैं- मैं क
- (iii) आँख दिखाकर
- (iv) आँख बचाकर

10. आतंकियों पर नरमी दिखाने के बजाय हमें उन्हें-----चाहिए।

- (i) काम तमाम करना
- (ii) ईंट से ईंट बजाना

- (iii) आड़े हाथ लेना
- (iv) टूट पड़ना

प्र.3) (क) बीस वित्त मंत्रियों और सेंट्रल बैंक के गवर्नर्स का समूह (जी20, जी -20 और बीस का समूह के रूप में भी जाना जाता है). जो विश्व की 20 प्रमुख अर्थव्यवस्थाओं के वित्त मंत्रियों और केंद्रीय बैंक के गवर्नर्स का एक संगठन है, जिसमें 19 देश और यूरोपीय संघ शामिल हैं। इसका प्रतिनिधित्व यूरोपीय परिषद के अध्यक्ष और यूरोपीय केंद्रीय बैंक द्वारा किया जाता है। १७ वें जी-२० शिखर सम्मेलन का आयोजन 9-10 सितंबर 2023 को दिल्ली (भारत) में प्रधानमंत्री श्री नरेंद्र मोदी की अध्यक्षता में संपन्न होगा।

यह प्रत्येक भारतीय के लिए गौरव का विषय है कि 2023 में जी 20 सम्मेलन की अध्यक्षता का गौरव भारत को प्राप्त हुआ है।

जी 20 के

- सिद्धांत
- स्थापना
- उद्देश्य
- सदस्यता

के विषय में जानकारी एकत्र कर लगभग 200 शब्दों में अनुच्छेद लिखें।

(ख) स्वरोजगार :आत्मनिर्भरता की सीढ़ी

- स्वरोजगार का अर्थ
- समय की मांग
- युवा प्रतिभाओं को निखारने का मौका

प्र.4 (क) आपके क्षेत्र में कक्षा बारहवीं के बाद की शिक्षा के लिए कोई उच्च शिक्षण संस्थान नहीं है। घर से दूर जाकर शिक्षा ग्रहण करने में आने वाली आर्थिक और अन्य कठिनाइयों के चलते अनेक विद्यार्थी उच्च शिक्षा के लाभ से वंचित रह जाते हैं। अपने क्षेत्र में उच्च शिक्षण संस्थान की प्रार्थना करते हुए शिक्षा मंत्री को लगभग 100 शब्दों में पत्र लिखिए।

(ख) आप प्रीतमपुरा नई दिल्ली निवासी हैं। आपके क्षेत्र में गत कई दिनों से आवारा पशुओं के चलते अनेक दुर्घटनाएं घटित हो चुकी हैं। इन घटनाओं की जानकारी देते हुए तथा इस समस्या का शीघ्र अति शीघ्र समाधान निकालने के लिए नगर निगम अधिकारी को लगभग 100 शब्दों में पत्र लिखिए।

प्र.5 (क) विद्यालय के प्रधानाचार्य की ओर से आपदा प्रबंधन पर आयोजित होने वाली कार्यशाला की जानकारी देते हुए लगभग 80 शब्दों में एक सूचना तैयार कीजिए।

(ख) आप शांति विद्या निकेतन, प्रशांत विहार, उत्तराखंड की/के छात्रा सुनीता / छात्र सुनील है। विद्यालय में आपका परीक्षा प्रवेश पत्र गुम हो गया है, इस विषय में लगभग 30 से 40 शब्दों में एक सूचना लिखिए।

प्र.6 (क) एक बार प्रयोग में लाए जाने वाले प्लास्टिक से होने वाले नुकसानों से जनसामान्य को जागरूक करने हेतु एक आकर्षक विज्ञापन लगभग 60 शब्दों में तैयार कीजिए।

(ख) भारत सरकार द्वारा विभिन्न राज्यों की हस्तकला संबंधी प्रदर्शनी आयोजित की जा रही है। इस संबंध में एक आकर्षक विज्ञापन तैयार कीजिए।

प्र.7परियोजना कार्य:-

"विज्ञापन एक ऐसा साधन है, जिसके द्वारा ग्राहकों को वस्तुओं तथा सेवाओं के संबंध में जानकारी दी जाती है और उन्हें क्रय करने के लिए प्रेरित एवं आकर्षित किया जाता है।"

सूचना प्रौद्योगिकी के युग में विज्ञापन जनता को सूचित करने किसी भी प्रकार का संदेश देने अथवा शिक्षित करने का सर्वाधिक सशक्त साधन है एक प्रकार से विज्ञापन प्रोत्साहन एवं प्रचार का ही एक रूप है जो किसी न किसी स्तर पर एक दूसरे के पूरक हैं।

परियोजना कार्य हेतु किसी भी हिंदी दैनिक समाचार पत्र में प्रकाशित विभिन्न विज्ञापन काटकर सही ढंग से स्कैप फाइल में लगाएं।

MATHEMATICS

Draw a design /object/creature.

How to do:

1. Take a graph paper and draw two perpendicular lines to obtain four quadrants.
2. Draw any one design /object/creature of your choice using straight lines only to cover all quadrants.
3. Write the coordinates of each point of intersection of line segments.
4. Colour the art work obtained to get a specific pattern. Each design should cover at least one Sustainable Development Goal.

Paste the graph paper on an A-4 size sheet.

Note: Each student will prepare two separate designs.

All A-4 size sheets should be submitted in one folder.

Solve the following questions on A-4 sized ruled sheet

Q.1 On Delhi roads, three consecutive traffic lights change after 36, 42 and 72 seconds. If the lights are first switched on at 9:00 A.M. At what time will they change simultaneously?

Q.2. A sweet seller has 420 kaju barfis and 130 coconut barfis. He wants to stack them in such a way that each stack has the same number, and they take up the least area of the tray. What is the number of sweets that can be placed in each stack for this purpose?

Q.3. CASE STUDY

Sneha is very health conscious and avoids fast food cakes, ice-cream etc on her birthday. She decided to serve fruits to her friends and guests. She had 60 bananas and 36 apples which are to be equally distributed among all.

- a) How many maximum guests Sneha can invite?
- b) How many bananas will each guest get?
- c) How many total fruits will each guest get?
- d) How many apples will each guest get?

Q.4. A group of students from class 10 decided to help some economically weaker section students. They started an honesty shop in the school with the help of school administration. They decided to sell stationery items. The profit made from the sale of these items (if the price of each item is the same) can be written in the form of $p(x) = x^2 - 100x - 60000$, where $p(x)$ is the profit in rupees and x is the number of items sold.



Photo Credit: Special Arrangement (The Hindu)

Use the above information to answer the questions that follow-

- When no item is sold, what is the profit or loss?
- What is the profit or loss if 200 items are sold?
- What is the profit if 500 items are sold?
- How many items do the students need to sell for no profit or loss?

ASSERTION-REASON BASED QUESTIONS

In the following questions, a statement of assertion (A) is followed by a statement of Reason ®. Choose the correct answer out of the following choices.

- Both A and R are true and R is the correct explanation of A.
- Both A and R are true but R is not the correct explanation of A.
- ® A is true but R is false.
- A is false but R is true.

Q.5 Assertion (A) : Degree of a zero polynomial is not defined.

Reason ® : Degree of a non-zero constant polynomial is 0

Q.6 Assertion (A) : If LCM {p, q} = 30 and HCF {p, q} = 5, then $p \cdot q = 150$

Reason ®: LCM of (a,b) x HCF of (a, b) = a . b

Q.7. Assertion (A): $2x + 3y = 5$ and $4x - 3y = 1$ are intersecting to each other.

Reason ®: For $ax + by + c = 0$, $px + qy + r = 0$, two lines intersecting to each other if a/p is not equal to b/q .

Q.8. Assertion (A): One zero of the quadratic polynomial $6x^2 - x - k$ is 1, then the value of k is 5.

Reason ®: The quadratic polynomial $ax^2 + bx + c$, $a \neq 0$ has at most two zeroes.

SCIENCE

General Instructions:

You are required to do holidays homework of Physics, Chemistry and Biology on three separate thin notebooks and project work is to be done as directed

BIOLOGY

Activity - Examine the energy usage/power consumption or water consumption at homes for an interval of 15 days during the vacations and make a note of it.

- Based on your observation; draw a bar graph/ pie-chart showing the power/water consumption. (On A4 size sheet)
- You can add pictures or make flowcharts as per your choice.

- Analytical write-up consisting of 100 words explaining the consumption of water OR electricity.

Write the following on A4 size sheets and put them in a labelled folder; include the Title page (make it decorative using your aesthetic sense) followed by the Index.

**Refer to “NCERT “ CHAPTER –Management of Natural/ Forest Resources. Link for pdf of chapter-
<https://ncert.nic.in/ncerts/l/jesc116.pdf>**

- 1) Classify the types of resources with various examples.
- 2) Importance of Sustainable development & how the daily consumption of electricity or Water has an effect on the management of natural resources.
- 3) Mention the programmes launched by Govt. of India launched India to protect / conserve forest.

Competency Based Question:

For the sustainable usage of water resources- ‘JAL JEEVAN MISSION’ was announced in 2019 by the Govt. of India. It aims to create local infrastructure for rainwater harvesting, groundwater recharge and management of household wastewater for reuse in agriculture.

- 1) Why there was a need to launch the program- JAL JEEVAN MISSION by the govt. of India and which gap this mission overcame in recent years?
- 2) Which strategies and datasets are available through various national government agencies; to make this mission a success.
- 3) How is the JAL JEEVAN MISSION helpful for locals in India?
- 4) Which state is best performing in JAL JEEVAN MISSION in India?

PHYSICS

There are two sections, Section 1 and section 2

Section 1

“Life is like refraction, sometimes it is towards normal sometimes away from normal”. Let’s learn more with the pictures clicked by you

Do any one of the following:-

1. Look around and find the objects which act as a concave or convex lens in your surroundings. Click Pictures of such objects.
2. How will your image be seen in concave and convex mirrors? Click yourself with these mirrors and make a collage.
3. Click photographs from your daily life where you use convex and concave mirrors.

Section 2

4. Following 10 questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below and give suitable explanation with each question:
(a) Both A and R are true and R is the correct explanation of A.

- (b) Both A and R are true but R is not the correct explanation of A.
 (c) A is true but R is false.
 (d) A is false but R is true.

Q.1. Assertion(A) : The centre of curvature is not a part of the mirror. It lies outside its reflecting surface.

Reason (R) : The reflecting surface of a spherical mirror forms a part of a sphere. This sphere has a centre.

Q.2. Assertion (A) : A ray passing through the centre of curvature of a concave mirror after reflection, is reflected back along the same path.

Reason (R) : The incident rays fall on the mirror along the normal to the reflecting surface.

Q.3. Assertion (A) : Light does not travel in the same direction in all the media.

Reason (R) : The speed of light does not change as it enters from one transparent medium to another.

Q.4. Assertion(A) : The emergent ray is parallel to the direction of the incident ray.

Reason (R) : The extent of bending of the ray of light at the opposite parallel faces (air- glass interface and glass-air interface) of the rectangular glass slab is equal and opposite.

Q.5. Assertion(A) : A ray of light travelling from a rarer medium to a denser medium slows down and bends away from the normal. When it travels from a denser medium to a rarer medium, it speeds up and bends towards the normal.

Reason (R) : The speed of light is higher in a rarer medium than a denser medium.

Q.6. Assertion(A): The mirrors used in search lights are concave spherical.

Reason (R) : In concave spherical mirror the image formed is always virtual.

Q.7. Assertion(A) : Light travels faster in glass than in air.

Reason (R) : Glass is denser than air.

Q.8. Assertion(A) : For observing traffic at back, the driver mirror is convex mirror.

Reason (R) : A convex mirror has much larger field of view than a plane mirror.

Q.9. Assertion(A) : Mirror formula can be applied to a plane mirror.

Reason (R) : A plane mirror is a spherical mirror of infinite focal length.

Q.10. Assertion(A) : It is not possible to see a virtual image by eye.

Reason (R): The rays that seem to emanate from a virtual image do not in fact emanates from the image

CHEMISTRY

Section 1

Chemistry is being used by us in our daily diet at home. We are using so many chemicals in their mild form. You are required to perform the following activities and record your observations as per the activities.

The material required shall be from your kitchen:

1. baking soda,
2. vinegar

3. Boric acid,
4. Starch (Corn flour)
5. Sugar,
6. salt,
7. soap solution
8. detergent (it may include shampoo or liquid washing soap)
9. Alum
10. Betadine (ointment or liquid)
11. Turmeric

- Test all the above. Substances with
 - Water
 - Vinegar/citric acid (present in lemon)
- And record your observations in tabular form.
CAUTION: perform all the tests in glass bowl.

SECTION 2

Answer the following questions:

1. Give the characteristic tests for the following gases:

CO₂ , SO₂, O₂ ,H₂

2. What happens when

- a piece of Zinc metal is added to copper sulphate.
- Aluminium metal is added to dilute HCl
- Silver metal is added to copper sulphate solution
- Also write the balanced chemical equations if the reaction occurs.

3. You are provided with 2 containers made up of copper and aluminium. You are also provided with solution of dilute HCl, dilute nitric acid, zinc chloride and water.

In which of the above containers these solutions can be kept?

4. On adding a drop of barium chloride solution to an aqueous solution of sodium sulphite, white ppt. is formed. Write a balanced chemical equation of the reaction involved. What other name can be given to the precipitation reaction.

On adding dilute hydrochloric acid to the reaction mixture, white precipitate disappears why? Explain with chemical reactions.

SOCIAL SCIENCE

Part A

Attempt the following questions in the fair notebook:

1. Why India is called as a Quasi Federal form of government?
2. Enlist three demands of the Sri Lankan Tamil acceptance of which by Tamil government could have settled the ethnic conflict in Sri Lanka for good? Explain.

3. “While it is easy enough to represent a ruler through a portrait or a statue, how does one go about giving a face to a nation?” Explain this statement in the context of European Nationalism.
4. ‘Language is power, life and the instrument of culture, the instrument of liberation.’ Justify the statement in light of the Nationalist sentiments in Poland, and Europe.
5. Which state in India has its lowest and highest rank in human development index (HDI)? Critically examine with valid reasons.
6. What factors determine international crude oil prices? Also think about possible causes and consequences of higher oil prices on the overall Indian economy?
7. Prepare a Leaflet on "PROJECT CHEETAH: AN EFFORT FOR WILDLIFE AND ENVIRONMENT CONSERVATION"

Part B

Education is a developmental process which brings about a change in mental and physical behavior of the students.

- Social Science is one of the subject which brings students closer to one’s environment, society and the intricate network of life processes. It enables them to understand the process of social change and the role that they can play towards this change.
- With the information explosion and widespread use of information technology demands on the education system have increased manifold.
- Seeing the need, CBSE has introduced the project work in Social Science to make learning interesting and participatory in nature which will also enhance student’s understanding of different concepts, principles and generalization inherent in the subject.

Every student has to compulsorily undertake any one of the following topic for the Project:

Social issues

OR

Consumer Awareness

OR

Sustainable Development

- **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 an 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 can use different primary and secondary resources to prepare the project. If possible, different forms of art should be integrated in the project work.**
- **Essential elements of project work:**

A good project includes the following sections:

- Title page: Centre the project title, and put your name, address and school.
- Aim / Objective: The introduction sets the Stage for your project. The aim includes an explanation of the topic you have chosen for the project and what you hoped to achieve.

•**Method:** This section describes how you did the study. Describe in detail the methodology used to collect your data or make your observations. Your report should include photographs or drawings, newspapers cuttings, pie charts, tables of comparison.

•**Discussion:** This is the essence of your project. The results and conclusions should flow smoothly and logically from your data. •**Conclusion:** This section describes the findings and conclusion of the project. Briefly summarize your results. Be specific, do not generalize. Never introduce anything in the conclusion that has not been discussed.

- ▶ **Case study:** Students have to collect minimum 2-3 real life case studies.
- ▶ **Different forms of art:** Drawing, photographs, collage of newspaper cuttings, articles, posters etc.
- ▶ **Acknowledgement:** You should always give credit to those who assisted you; they may be individuals, educational or research institutions.
- ▶ **Reference list:** Your reference list should include any documentation that is not your own (i.e. books, journal articles, include specific internet URLs).
- ▶ ***All the photographs and sketches should be labelled and related to the theme.**
- ▶ **Teacher's Report**
- ▶ **Important Note:** The project should be handwritten (35-40 pages).

SOCIAL EVILS

Every society has some problems, and these are commonly termed as social issues. It is a problem that is affecting a considerable percentage of a Nation or global population.

- ▶ **Social issues** refers to any undesirable condition i.e. either opposed by the whole society or by a section of the society. It is an unwanted social condition, often objectionable, and the continuance of which is harmful for the society.
- ▶ By doing this project, students will be able to identify the social issues present in our society.
- ▶ They will also be able to analyse the different ways an ordinary person can play an extraordinary role in curbing social evils present in our society.

Dear students Suggested Topics under social issues for the project: Choose any one topic from the below mentioned topics-

1. Status of women in India
2. Poverty
3. Child marriages in India
4. Racial discrimination
5. Impact of social media on youth
6. Gender inequality
7. Child labour in India
8. Unemployment in India
9. Drug menace-How to fight with it?
10. Social networking sites-Boon or Bane?

CONSUMER RIGHTS:

It refers to consumer's right to safety, to be informed, to choose, and to provide manufacturers with information concerning their product when they make a purchase.

Objectives of the Project:

By doing this project, students will be able to:

- Know their major consumer rights while making purchases.
- Restore the balance in the buyer – seller relations in the market place.
- Know about the government regulatory agencies for consumer protection.
- Know about Consumer protection Act

Guidelines of the project:

The main guidelines for the project are:

- The project should include case studies of different consumers, newspaper clippings, magazines articles along with pictorial illustrations.
- The students can use material from authenticated websites, <https://consumeraffairs.nic.in> which is a website of Central Government Ministry of Consumer Affairs.
- Another website www.cutsinternational.org is the website of a consumer organization working in India for 40 years.
- The students can visit to consumer protection councils, consumer organizations, district level consumer Disputes Redressal Commission, retail shops, market places etc. to maximize learning experience.
- Students are required to integrate different forms of art in Project work.

SUSTAINABLE DEVELOPMENT

Objectives of the project:

By doing this project, students will be able to:

- Define and discuss the idea and practice of sustainability.
 - To apply concepts of sustainable development.
 - To address sustainability challenges in a global context.
- Identify and critically analyze the social, environmental, and economic dimensions of sustainability.

Students are required to integrate different forms of art in project work.

Essentials of the project: Introduction

Sustainable development

Concept of Sustainable

Development

Need and importance of Sustainable development

Evolution of Sustainable Development Concept

The Pillars of Sustainable development

Approaches of Sustainable development

Sustainability Principles

Strategies for Sustainable development

Project must include a collage on “Sustainable development goals”.

Students can collect a minimum of two case studies.

Conclusion

SITES FOR REFERENCE:

<https://www.un.org/sustainabledevelopment>

<https://www.conserve-energy-future.com/what-is-sustainable-development-and-its-goals.php>

संस्कृत

1. चित्र वर्णन - 1-5 पृष्ठ संख्या 21-25
 2. पत्र लेखन 1- 4 पृष्ठ संख्या -13-15
 - 3 113,114 पृष्ठयोः दत्तसंवादानां हिन्दीभाषायां अनुवादं कुरुत ।
- विशेष : समस्तकार्यं लघु उत्तरपुस्तिकायां कर्तव्यम्।**

4. **परियोजना कार्य** - हरियाणा एवं मणिपुर - सामान्य : परिचय-
अस्यां परियोजनायां द्वयोः राज्ययोः सामान्यपरिचयं, परिधानानि , खाद्य-पदार्थाः, प्रमुखानि
नगराणि एवं अन्याः विशेषताः आधृत्य सामान्यरूपेण अथवा पी. पी. टी. इति माध्यमेन
प्रस्तुतं करणीयम्।

CURRENT AFFAIR BASED ACTIVITY

TITLE: THE WORLD WITHIN INDIA:

G-20 AND INDIA'S PRESIDENCY

Dear Students,

You all are aware about India's G-20 presidency. India holds the Presidency of the G20 from December 1, 2022 to November 30, 2023.

The theme of India's G20 Presidency "Vasudhaiva Kutumbakam" or "One Earth, One Family, One Future" closely ties with LiFE (Lifestyle for Environment)



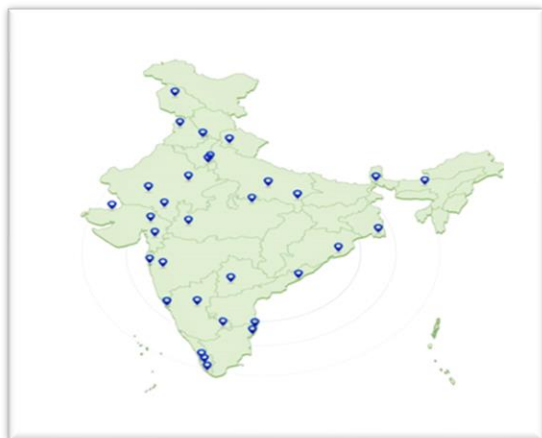
Before we discuss further let's get a brief look into G -20, though there is a lot to explore.

The Group of Twenty (G20) is an intergovernmental forum comprising 19 countries - **Argentina, Australia, Brazil, Canada, China, France, Germany, India, Indonesia, Italy, Japan, Republic of Korea, Mexico, Russia, Saudi Arabia, South Africa, Turkey, United Kingdom and United States and the European Union.**

The G20 Presidency steers the G20 agenda for one year and hosts the Summit. The G20 consists of two parallel tracks: the **Finance Track** and the **Sherpa Track**. Finance Ministers and Central Bank Governors lead the Finance Track, while Sherpas lead the Sherpa Track.

India will host over 200 meetings in over 50 cities across 32 different work streams. There are some interesting facts and thoughts behind the selection of each of the host cities.

Take a look into the map for location of cities. You can use Google lens to read the names or get a copy of Atlas which probably has been long abandoned or any other way. Afterall you all are smart kids!



Each city that has been designated as a venue for a particular work stream carries a purpose and deeper thought to be chosen as the host city.

TASK :

Select any five cities that start from the letters that appear in your first name (you can use letters from your surname only when your name contains less than five letters or there aren't enough host cities from the letters in your first name)

Find out the agenda of meeting at each of the shortlisted cities and what in your opinion could be reasons behind the choice of specific cities.

Work Presentation Instructions:

1. Take an A4 size Activity sheet
2. Write your full name in capital letters on top.
3. Then give details of the host cities' meeting agendas and other underlying thoughts and reasons behind the selection of city. OR you can paste/draw India's map and mark cities with names and details. Or may be develop a QR Code ! Or any other interesting way.
4. Use different colour pens/pencils/highlighters to differentiate cities.

Enjoy Your Journey To Different Cities Of Prominence In India!