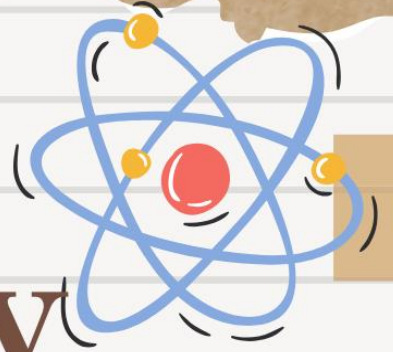




Bal Bharati
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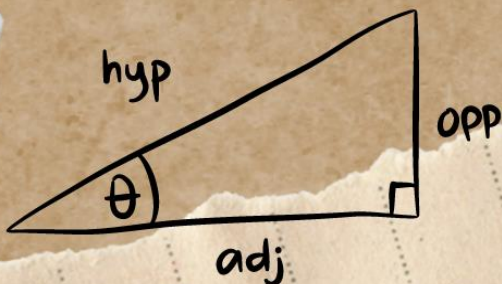
HOLIDAY HOMEWORK



Class 10



$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



$$\sin(\theta) = \frac{\text{opp}}{\text{hyp}}$$





✂️ SUMMER VACATION HOLIDAY ASSIGNMENT ✂️

CLASS-X

SESSION: 2023-24

SUBJECT-ENGLISH

1. LETTER WRITING ACTIVITY: Write the following letters:
 - a. Write a letter to the Editor of a newspaper against the use of unfair means by students in examinations. Your name is Pankaj Walia and you live at 17, Model Town, Nawanshahar. (150-200 words)
 - b. Write a letter to the Editor of 'The Times of India' Complaining about the nuisance created by the use Of loudspeakers. You are Piyush Sharma, a resident of sector 15, Vasundhara Enclave, New Delhi. (150-200 words)
 - c. Write a letter to the Sales Manager, Arya Publications, Ashok Vihar, Delhi, placing order for class IX. Reference books of all the subjects for educational purpose. You are Sanjeev/Sanjana, 12/CA, Model Town, Kurukshetra. (150-200 words)
2. COMIC STRIP ACTIVITY: Prepare a Comic Strip on Any social theme from the contemporary issues. Give it a suitable and catchy heading to make it look impressive. It shall be explained by you in the class as a part of Multiple Assessments/Portfolio when the school reopens. You may use an A4 Sheet for the activity.
3. Water is precious and each one of us must stop wastage. Design a poster in not more than 50 words urging people to employ various methods of rain water harvesting in their colonies. Usage of language and catchy slogan would earn special appreciation.
4. Fill in the blanks with the correct form of the verb.
 - i. Each of the girls ____ her own dress. (has/have)
 - ii. Five miles ____ long distance. (is/are)
 - iii. Many a man ____ tried hard to climb the treacherous mountain range. (have/has)
 - iv. The furniture of the house ____ quite impressive. (is/are)
 - v. Few students ____ coming to the party. (is, are)
 - vi. Uma, my childhood friend ____ leaving for Delhi next month. (is/are)
 - vii. Most of my friends ____ government employees. (is/are)
 - viii. The level of pain tolerance ____ from person to person. (vary/varies)
 - ix. Either Tina or Rohit ____ telling lies. (is/are)
 - x. A number of people ____ reported to have fallen sick after drinking the water from the tubewell. (was/were)
 - xi. The government ____ criticised by the Supreme Court for their actions. (was/were)
 - xii. No one ____ a greater collection of books than my friend Reeshav. (has / have)
 - xiii. Somebody ____ waiting at the door for you. (is / are)
 - xiv. Two ____ ago, here is the place where the accident took place. (year/years)
 - xv. Fast food, like burgers and street food, ____ harmful to our health. (is/are)

5. Read the following sentences and change them into reported speech

- i. My mom said, "Everything is going to be fine."
- ii. Luke said, "I will cook for you tomorrow."
- iii. Manisha said, "I think I will have a shot at it next year."
- iv. Soumia said, "I am wearing a black dress for Achu's reception."
- v. The manager said, "All the rooms have been allocated according to your choices."
- vi. My grandmother said, "I have some work to do."
- vii. Lakshmi said, "I am a tailor."
- viii. Madhav said, "The cricket team did their best."
- ix. Dhoni said, "Can you help me with the luggage?"
- x. My parents said, "We loved the passion fruit dessert."
- xi. Danny said, "I am starting work from tomorrow."
- xii. The police officer said, "We are investigating the matter."
- xiii. Emily said to Richard, "You are raising your voice."
- xiv. Josh said, "I love shrimp."
- xv. Naomi said, "Was Farsana present yesterday?"

विषय- हिंदी

1. मुंशी प्रेमचंद/रवीन्द्रनाथ टैगोर की कोई एक कहानी पढ़ें एवं अपने पसंदीदा पात्र के बारे में लिखें।
2. अगर आप बड़े भाई साहब की जगह होते तो क्या करते? लगभग 50-60 शब्दों में लिखिए।
3. आज समाज और परिवार के रिश्ते बिगड़ते जा रहे हैं। इसके क्या कारण हैं? इस समस्या का समाधान क्या हो सकता है?
4. अगर आपको आज की शिक्षा व्यवस्था में सुधार करना हो तो आप क्या-क्या सुधार करना चाहेंगे और क्यों?
5. ऐसा क्यों कहा जाता है कि विद्यार्थी-जीवन किसी व्यक्ति के जीवन का सबसे महत्वपूर्ण दौर होता है?
6. पाठ- 'बड़े भाई साहब' को छोड़कर पाठ्यपुस्तक 'स्पर्श' से कोई दस मुहावरे छाँटकर लिखिए।
7. "आज भी समाज में कई हरिहर काका न्याय की प्रतीक्षा में हैं।" -कथन के पक्ष अथवा विपक्ष में अपने तर्क लिखिए।
8. रहीम के दोहों में से किसी एक दोहे को स्पष्ट लिखावट में चार्ट-पेपर पर अर्थ सहित लिखिए।
9. कक्षा- पत्रिका के लिए कोई एक कहानी/कविता/चुटकुला/तथ्य-संग्रह लिखिए।
10. मीराबाई का कोई एक लोक-प्रचलित भजन लिखिए।

परियोजना कार्य - ग्रीष्मावकाश के दौरान राज कपूर व वहीदा रहमान अभिनीत फिल्म - 'तीसरी कसम' देखिए तथा संक्षेप में अपने विचार लिखिए। जैसे - फिल्म कैसी लगी, फिल्म का विषय क्या है, गीत-संगीत कैसा है, अब कौन कौन-से बदलाव आए हैं आदि।

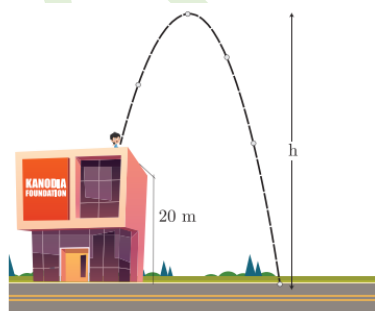
विषय : संस्कृत

1. पर्यावरण से संबंधित तीन सुभाषितानि लिखकर अनुवाद कीजिए।
2. संस्कृत की किंही 5 सूक्तियों को अर्थ सहित लिखिए।
3. संस्कृत में 1 से 100 तक संख्या लिखकर याद कीजिए।

4. मुनि , अस्मद् , युष्मद् , तत् तथा किम् शब्दरूप लिखकर उन्हें याद करें ।
5. गम् , नम् तथा हस् धातुरूप पाँचों लकार में लिखकर याद कीजिए ।
6. क्त्वा , ल्यप् , तुमुन् , शतृ , शानच् , अनीयर् प्रत्यय के 5-5 उदाहरण लिखिए ।
7. ग्रीष्मावकाश के विषय में मित्र तथा पिता को संस्कृत में पत्र लिखिए ।
8. बुकमार्क बनाकर स्वर तथा व्यंजन संधि में प्रयोग आने वाले 8 संस्कृत सूत्रों को लिखिए ।
9. अपने यात्रा विवरण को 80 शब्दों में संस्कृत भाषा में लिखिए ।
10. चाणक्य द्वारा रचित मुद्राराक्षस कथा को 60-80 अपने शब्दों में लिखिए ।

SUBJECT-MATHEMATICS

1. VERIFY PAIR OF L.E IN TWO VARIABLES WITH UNIQUE SOLUTION. (BY TAKING PAIR OF EQUATION).
2. Find the largest number that divides 1251, 9377 and 15628 leaving remainders 1, 2 and 3, respectively
3. There are 312, 260 and 156 students in class X, XI and XII respectively. Buses are to be hired to take these students to a picnic. Find the maximum number of students who can sit in a bus if each bus takes equal number of students
4. If α and β are the zeroes of the quadratic polynomial $f(x) = x^2 - 4x + 1$, then find the value of
(i) $\alpha - \beta$ (ii) $\alpha^2 + \beta^2$
5. If α and β are the zeroes of the quadratic polynomial $f(x) = 2x^2 - 5x + 7$, then find a quadratic polynomial whose zeroes are $2\alpha + 3\beta$ and $2\beta + 3\alpha$
6. If one zero of the polynomial $(a^2 + 9)x^2 + 13x + 6a$ is reciprocal of the other. Find the value of a.
7. Find the zeroes of the following polynomials by factorization method and verify the relations between the zeroes and the coefficients of the polynomials:
(i) $4x^2 + 5\sqrt{2}x - 3$
(ii) $2s^2 - (1 + 2\sqrt{2})s + \sqrt{2}$
8. Lavanya throws a ball upwards, from a rooftop, which is 20 m above from ground. It will reach a maximum height and then fall back to the ground. The height of the ball from the ground at time t is h, which is given by $h = -4t^2 + 16t + 20$.



- i) What is the height reached by the ball after 1 second?
 - ii) What is the maximum height reached by the ball?
 - iii) How long will the ball take to hit the ground?
9. State fundamental theorem of arithmetic and find the hcf of 60,45,75
 10. Prepare a mind map of the topic as per given roll no.
Roll no. – 1 to 6 – Polynomials ; Roll no. – 07 to 12 – Linear Equation in two variables ;
Roll no. – 13 to 17 – Real number

Project/Activity

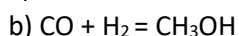
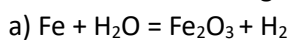
MAKE ANY ONE PROJECT FROM FOLLOWING PROJECTS:

Project 1: Efficiency in Packing To investigate the efficiency of packing of objects of different shapes in a cuboid box. (Efficiency is the percentage of box space occupied by the objects.)

Project 2: Golden rectangle and golden ratio To explore the meaning of 'Golden Rectangle' and 'Golden Ratio' and their relationship with some other mathematical concepts. (Golden rectangle and golden ratio are very closely related concepts involving other mathematical concepts such as fractions, similarity, quadratic equations, trigonometry, etc.)

SUBJECT-SCIENCE

1. Balance the following chemical equations—



2. A solution of potassium chloride when mixed with silver nitrate solution, an insoluble white substance is formed. Write the chemical reaction.

3. You are provided with two containers made up of copper and aluminum. You are also provided with solutions of dilute HCl, dilute HNO_3 , ZnCl_2 and H_2O . In which of the above containers these solutions can be kept?

4. Write some uses of bleaching powder and baking soda.

5. Why should a magnesium ribbon be cleaned before burning in air?

6. Write a balanced chemical equation with state symbols for the following reactions:

(i) Solutions of barium chloride and sodium sulphate in water react to give insoluble barium sulphate and the solution of sodium chloride.

(ii) Sodium hydroxide solution (in water) reacts with hydrochloric acid solution (in water) to produce sodium chloride solution and water.

7. Why does the colour of copper sulphate solution change when an iron nail is dipped in it?

OR

An iron nail is dipped in the solution of copper sulphate for about 30 minutes. State the change in colour observed. Give reason for the change.

8. Write the chemical reaction regarding the formation of bleaching powder, washing soda, baking soda and plaster of Paris.

9. Explain how the human body maintains the concentration of glucose in the blood within a narrow range.

10. What is the role of stomata in photosynthesis? How do they regulate the exchange of gases?

PROJECT/ACTIVITY WORK

1. Activity-Make two columns of acid and bases which are found in kitchen.

2. Project- Make your own p^{H} scale with a cardboard.

3. Activity— You know that turmeric powder is a natural indicator. Observe the effect of this indicator on the following different acidic and basic substance found in your Write some uses of bleaching powder and baking soda, make a report. (at least 5 substances)

Lemon, Toothpaste, Baking powder, Vinegar, Carbonated beverages, Cleaning powder, Soap, Milk

4. Investigate the effects of different types of exercise on the rate of respiration and heart rate of a person, and analyze the data.

SUBJECT: SOCIAL SCIENCE

Section: A

Enrichment Activity/Project:

Objectives	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
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	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.	
Task	Enrichment Activity/Project guidelines- 1. It is a mandatory for all. 2. Each student has to take any one project (allotted as per your roll nos. out of the listed projects topics. 3. Project can be prepared on MSWORD / POWERPOINT/or can be HANDWRITTEN. 4. Number of pages expected in the project: ➤ MS Word-10 pages ➤ Handwritten-10 pages ➤ Powerpoint – 15 slides 5. Order of presentation of project report: ➤ Cover page (Topic, Name, Class, Section and Roll No.) ➤ Index ➤ Acknowledgement ➤ Content. ➤ Conclusion ➤ Bibliography ➤ Glossary 6. Support your project with suitably labelled pictures, maps, graphs, interesting facts, interviews conducted, questionnaire etc NOTE: Cite & give credit to the references used by you at every place including pictures and data. 7. Projects topics are: ➤ Consumer Awareness (Roll Number: 1 to 6) ➤ Social Issues (Roll Number: 7 to 12) ➤ Sustainable Development (Roll Number: 13 to 17)	
Date and Mode of submission:	To be submitted once the school commences after the vacation.	
Rubrics for Enrichment Activity/Project	Content accuracy, originality and collaborative skills	2
	Competencies exhibited and Presentation	2
	Viva	1

Section: B

Objective type questions:

- Who had designed the 'Swaraj Flag' by 1921? Explain the main features of the 'Swaraj Flag'.
- Why did Gandhiji decide to launch a nationwide Satyagraha against the proposed Rowlatt Act of 1919? How was it organized?
- How did Salt March become an effective tool of resistance against colonialism? Explain.
- Culture had played an important role in the development of nationalism in Europe during the 18th and 19th centuries. Support the statement with examples.
- 'Nationalism no longer retained its idealistic liberal democratic sentiments by the last quarter of the 19th century in Europe'. Analyse the statement with examples.
- Which five provisions of Indian Constitution make India a full-fledged federation?
- Explain the threefold distribution of legislative powers between the Union Government and the State Governments.
- Why was Brussels chosen as the headquarters during the formation of European Union?

9. 'What may be development for one may not be development for the other.' Explain by giving examples.
10. 'Money cannot buy all the goods and services that one needs to live well.' Explain.

SUBJECT-COMPUTER

Q1. Write the answer of the following questions.

- I. What is cyber safety, and why is it important?
- II. What is cyberbullying, and how can you protect yourself and others from it?
- III. Discuss the importance of privacy settings on social media platforms and why it's crucial to regularly review and update them.
- IV. What is the significance of strong and unique passwords? How can you create a strong password?
- V. What is malware, and what steps can you take to protect your computer or device from it?
- VI. How can you stay safe while using public Wi-Fi networks?
- VII. Discuss the dangers of online gaming and strategies for maintaining online gaming safety.
- VIII. Explain the risks associated with sharing personal information through email or online messaging platforms.
- IX. What are the potential risks and benefits of using social media platforms? How can you navigate social media safely?
- X. Discuss the importance of responsible digital citizenship and the ethical use of technology.

ACTIVITY/PROJECT WORK: -

I) Digital content creator- " Make a vlog on any of the following topic".

Topic:-

- a) Technology Reviews: Review the latest gadgets, smartphones, or video games and share your opinions and experiences.
- b) App Recommendations: Showcase and review useful mobile apps for different purposes, such as productivity, education, or entertainment.
- c) Gaming Tips and Strategies: Provide tips, walkthroughs, or strategies for popular video games, helping viewers improve their gaming skills.
- d) Travel blog: Create detailed guides for popular travel destinations or the places you visit, including information about attractions, accommodations, local cuisine, and cultural highlights.
- e) food vlog: showcase your cooking skill or visit any restaurant and review the food item.

Criteria:- i. Create a YouTube channel and upload the video and send the link to

testcodestart@gmail.com .

ii. Minimum duration of the video is 5 minutes.

SUBJECT-Art & Craft

- Make a sculpture with clay or wheat flour dough.