

HOLIDAY HOMEWORK SESSION 2026 - 27

CLASS : X

<u>SL. NO.</u>	<u>SUBJECT</u>	<u>HOMEWORK</u>	
1.	ENGLISH	<p style="text-align: center;"><u>CLASS X HOLIDAY HOMEWORK</u></p> <p>Q1. Read the following extracts and answer the questions that follow.</p> <p><i>A. “He smiled uncomfortably. ‘Just plans, sir,’ he answered in a low voice. ‘Yet in both these boyish faces there was a seriousness which was far beyond their years. In the week which followed, we saw them frequently and found them remarkably useful. If business was slack, they could be seen coming out of the tourist bureau.”</i></p> <p>i) What does the phrase “far beyond their years” suggest about the boys?</p> <p>ii) Why does the narrator find the boys unusual for their age?</p> <p>iii) How does the extract reflect dignity of labour?</p> <p>iv) What lesson can young people learn from the boys’ attitude towards work?</p> <p><i>B. “Nor Mars his sword nor war’s quick fire shall burn The living record of your memory. 'Gainst death and all-oblivious enmity Shall you pace forth; your praise shall still find room.”</i></p> <p>i) What is referred to as the “living record”?</p> <p>ii) How are war and destruction presented in the extract?</p> <p>iii) Why does the poet believe poetry survives time and destruction?</p> <p>iv) What central idea of the sonnet is highlighted in these lines?</p> <p>Q2. Fill in the blanks with suitable verbs from those given in brackets. Only answers with serial no to be written.</p> <p>By the time the director (i) _____ (cast/casted/was casting) the actor for the role, the audience (ii) _____ (had already spread/had already spreaded/was already spreading) rumours online. The producers (iii) _____ (put/had</p>	

		<p>putted/had put) great pressure on him before he finally (iv) _____ (cut/cutted/had cut) short the discussion.</p> <p>Q3. TWO GENTLEMEN OF VERONA</p> <p><i>Activity: Travel Blog Infographic Project</i></p> <p>Imagine yourself as the narrator visiting Italy.</p> <p>Create a creative travel blog in infographic form describing your journey through Verona and your meeting with Nicola and Jacopo.</p> <p>Your project must include:</p> <p>A title for your travel blog</p> <p>Pictures/sketches/maps of Verona and nearby places</p> <p>Important places, persons and items mentioned in the story</p> <p>Short descriptions of Nicola and Jacopo</p> <p>The hardships faced by the brothers</p> <p>Your emotional reactions towards the people and incidents</p> <p>A concluding reflection on sacrifice, responsibility and humanity</p> <p>General Instructions:</p> <ul style="list-style-type: none"> ✓ Use A4 sheets/chart paper/scrapbook ✓ Add captions, symbols and quotations from the text ✓ Use colours creatively ✓ Include at least 4 visuals/images ✓ Word limit: 120–150 words 	
<p>2.</p>	<p>HINDI</p>	<ol style="list-style-type: none"> 1. “वो लँगड़ा क्या जाएगा फौज में। पागल है पागल!”कैप्टन के प्रति पानवाले की इस टिप्पणी पर अपनी प्रतिक्रिया लिखिए। 2. बच्चों द्वारा मूर्ति पर लगाया गया सरकंडे का चश्मा क्या उम्मीद जगाता है? 3. ‘नेताजी का चश्मा’ अध्याय के आधार पर आप अपने इलाके के चौराहे पर किस व्यक्ति की मूर्ति स्थापित करवाना चाहेंगे और क्यों? 4. रचना के आधार पर वाक्य भेद बताइए- (क) सूर्य अस्त होते ही पक्षी घोंसलों में चले गए। (संयुक्त वाक्य में बदलें) 	

		<p>(ख) रामू दौड़ा और मेरे पास आया। (सरल वाक्य में बदलें)</p> <p>(ग) जब मैं स्टेशन पर पहुँचा, गाड़ी आ चुकी थी। (वाक्य भेद का नाम बताइए)</p> <p>5. 'वाच्य' परिवर्तन कीजिए-</p> <p>(क) सरकार द्वारा जनता पर करोड़ों रुपए खर्च किए गए। (इसका कर्तृवाच्य बताइए)</p> <p>(ख) रमेश जल्दी नहीं उठता। (इसका भाववाच्य बताइए)</p> <p>(ग) मैं दीपावली पर मिट्टी के दीए जलाऊँगी। (इसका कर्मवाच्य बताइए)</p> <p>परियोजना कार्य</p> <p>6. सूरदास के जीवन परिचय, उनकी प्रमुख रचनाएँ, पदों की भाषा-शैली तथा वर्तमान समय में उनकी प्रासंगिकता को भी शामिल करते हुए A4 पेपर में एक परियोजना तैयार कीजिए।</p>	
3.	BENGALI	<p>Project Work</p> <p>‘জ্ঞানচক্ষু’ গল্পের কমিক স্ট্রিপ প্রস্তুত কর।</p> <p>প্রশ্নগুলির যথাযথা উত্তর দাও।</p> <p>১) “অনুগ্রহ করে একটু সাহায্য করবেন আমাকে?”- বক্তা কী সাহায্য চেয়েছিলেন?</p> <p>২) “চেহারা অবশ্য নামের উপযুক্ত নয়।”- এই রূপ মন্তব্যের কারণ নিজের ভাষায় লেখো।</p> <p>৩) “মাঝখানেই পরেই কিন্তু চাকরি গেল তার”- চাকরি দেওয়ার কারণটি কী ছিল?</p> <p>৪) সন্ধি করো।</p> <p>রাজ + নী, উৎ + স্থাপন, বিদ্যুৎ + চমক, ষট্ + নবতি, দিব্ + লোক</p> <p>৫) সন্ধি বিচ্ছেদ করো।</p> <p>প্রায়শ্চিত্ত, সন্ধি, প্রশংসা, তৎপুরুষ, ক্ষুৎপিপাসা</p> <p>৬) ব্যাসবাক্য সহ সমাসের নাম লেখো।</p> <p>ভীমার্জুন, দম্পতি, বিন্দুবিসর্গ, হিতাহিত, আমরা</p>	
4.	MATHS	<p>1. Find the condition for the pair of linear equations $ax + by = c$, and $lx + my = n$ to have unique solution.</p> <p>2. One equation of a pair of dependent linear equations is $-5x + 7y - 2 = 0$, then find the second equation.</p> <p>3. If α and β are zeros of the polynomial $2y^2 + 7y + 5$, find the value of $\alpha^2 + \beta^2$.</p> <p>4. What is the smallest number which when increased by 6 becomes divisible by 36, 63 and 108?</p> <p>5. For what value of k the system of equation $x + 2y + 7 = 0$ and $2x + ky + 14 = 0$ represent coincident lines?</p>	

		<p>6. DIRECTIONS: In question number 6 a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct option: (A)Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A) (B)Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A) (C)Assertion (A) is true but reason (R) is false. (D)Assertion (A) is false but reason (R) is true. Assertion (A): $\sqrt{2}+\sqrt{3}$ is an irrational number. Reason (R): If p and q are prime positive integers, then $\sqrt{p}+\sqrt{q}$ is an irrational number.</p> <p>7. If the sum of the squares of zeros of the quadratic polynomial $f(x) = x^2 - 8x + k$ is 40, find the value of k.</p> <p>8. Solve the system of equations: $x + \frac{y}{2} = 4$; $\frac{x}{3} + 2y = 5$.</p> <p>9. HCF of 2 numbers is 16 and their product is 3072. Find their LCM.</p> <p>10. Find zeros of the quadratic polynomial $\sqrt{3}x^2 + 10x + 7\sqrt{3}$.</p> <p>11. Prove that $\sqrt{7}$ is an irrational number.</p> <p>12. A two-digit number is such that the product of its digits is 20. If 9 is added to the number the digits interchange their places. Find the number.</p> <p>13. ACTIVITY WORK Activity work: (To be done in half chart paper with proper cover page.) (i) To draw graph of a quadratic polynomial $x^2 - 4x - 5$ on the graph paper and find the zeros. (Take at least 10 points to draw the graph) (ii) To verify the conditions of consistency / inconsistency for a pair of linear equation in two variables by graphical method. (Take three pairs of equations to verify.) *****</p>	
5.	SCIENCE	<p>PHYSICS:</p> <p>1. A ray of light passes obliquely from Medium A (Air) to Medium B (Glass). The refractive index of Air is 1.00 and Glass is 1.50.</p> <ol style="list-style-type: none"> Will the light ray bend towards or away from the normal? What happens to the speed of light in Medium B? <p>2. A dentist needs to examine a tiny cavity in a patient's molar. Which type of mirror should the dentist use to get an enlarged, erect image of the tooth, and at what distance should the mirror be held relative to the tooth?</p> <p>3. A student uses a pinhole camera to observe a tree 10m tall. The camera is 2m long. If the tree is 20 m away from the pinhole, what will be the nature, size, and orientation of the image formed on the tracing paper screen?</p> <p>Activity: Verification of Lens Formula Using a Water-Bottle Lens Lens Formula: $(1/v) - (1/u) = 1/f$ Aim:</p>	

		<p>To verify the lens formula using a convex lens made from a cut water bottle filled with water. Materials: Water-bottle lens, candle/LED, white screen, scale, stand/tape.</p> <p><u>Chemistry</u> Answer the following question: Gas ‘P’ which is the major cause of global warming combines with an oxide of hydrogen ‘Q’ , in our nature in the presence of an environmental factor ‘R’ and a green material ‘S’.Finally it form a six carbon organic compound ‘T’ and a gas ‘U’. The gas ‘U’ is necessary for breathing. A.Identify P, Q, R, S, T and U. B.Name this natural process and write the chemical equation for this reaction. C.Is the reaction exothermic? justify.</p> <p><u>Activity</u> : <i>Performing & Observing the following reaction</i></p> <p>A. Decomposition of Lead nitrate B. Decomposition of crystal Ferrous sulphate</p> <p>To write the same use the following format in the practical notebook: 1. Aim 2. Materials Required 3. Procedure 4. Observation 5. Diagram(In white page of the practical copy) 6.Inference</p> <p><u>BIOLOGY</u></p> <p>BIOLOGY: Science Activity/Experiment A. Preparation of stained temporary mounts of onion peels & to record observations and draw their labelled diagrams. To write the same use the following format in the practical notebook: 1. Aim 2. Materials Required 3. Procedure 4. Observation 5. Inference 6.Precautions B.Experimental show that carbon dioxide is given out during respiration. C.Studying (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides Note - Use DAV CAE Practical copy for completion of the practicals.</p>	
6.	SOCIAL SCIENCE	<p><u>HISTORY:</u> Q.NO.1.” Romanticism,a cultural movement,sought to develop a particular form of nationalist sentiment”. Justify the statement with suitable arguments.</p>	

		<p>Q.NO.2. Briefly describe the process of German Unification with special emphasis on the role of Otto Von Bismark.</p> <p>Q.NO.3. How did the Balkan region become a source of nationalist tension in Europe after 1871 ?</p> <p><u>ECONOMICS</u></p> <p>Dear Students,</p> <p>You are required to prepare a Holiday Homework Project on the chapter “Consumer Awareness” as per the following guidelines:</p> <p>Project Details:</p> <p>The project should be 10–12 pages long</p> <p>It must be neatly handwritten on A4 sheets or in a project file</p> <p>Include the following components:</p> <p>Cover Page</p> <p>Acknowledgement</p> <p>Index</p> <p>Introduction</p> <p>Consumer Rights & Responsibilities</p> <p>Consumer Exploitation</p> <p>Consumer Protection Act (2019)</p> <p>Consumer Redressal System</p> <p>Quality Marks (ISI, AGMARK, FSSAI, Hallmark)</p> <p>Conclusion & Bibliography</p> <p>Presentation Guidelines:</p> <p>Use proper headings and subheadings</p> <p>Add relevant diagrams/logos/examples</p> <p>Maintain neatness and creativity</p> <p><u>POLITICAL SCIENCE</u></p> <p>ANSWER THE FOLLOWING QUESTIONS:</p> <p>Differentiate between Horizontal and Vertical Division of power. (Any 5 points)</p> <p>Differentiate between the Prudential and Moral reasons for power sharing.</p> <p>Compare and contrast the ways in which Belgium and Sri Lanka handled their ethnic and linguistic diversities. What lessons can we learn from them?</p> <p><u>GEOGRAPHY</u></p> <p>On a political map of India locate and label the regions covered with following soil and paste it in your Geography Notebook.</p> <p>Alluvial soil</p> <p>Black soil</p> <p>Laterite soil</p> <p>Red soil</p> <p>Arid soil</p>	
7.	SANSKRIT	<p>1. अधोलिखितं गद्यांशं पठित्वा प्रश्नानाम् उत्तराणि लिखत :-</p> <p>नाहं स्वर्गं न मोक्षं वा कामये किन्तु अर्थानां परित्राणाय एव मे निश्चयः। अस्य याञ्चा वृथा मा अस्तु। इत्युक्त्वा स राजा</p>	

वैद्योक्तविधिना नीलोत्पलम् इव एकं चक्षुः शनैः अक्षतम् उत्पाट्य प्रीत्या याचकाय समर्पितवान्। सः अपि तत् नेत्रम् यथास्थानम् अस्थापयत्। ततो महीपालः कंसः द्वितीयं नेत्रमपि शनैः निष्कास्य तस्मै ददौ। अथ विस्मितः शक्रः अचिन्तयत् - अहो धृतिः! अहो सत्त्वम्! अहो सत्त्वहितैषिता।

I. एकपदेन उत्तरत -

(i) कः स्वर्गं मोक्षं वा न इच्छति?

(ii) कः तन्नेत्रं यथास्थानम् अस्थापयत्?

II. पूर्णवाक्येन उत्तरत -

(i) राजा वैद्योक्तविधिना किं शनैः उत्पाट्य याचकाय समर्पितवान्?

III भाषिककार्यम् -

(i) अनुच्छेदे 'नेत्रम्' पदस्य पर्यायः कः लिखितः?

(क) चक्षुः (ख) एकम् (ग) अक्षतम् (घ) द्वितीयम्

(ii) 'अहो सत्त्वहितैषिता' इति कस्य चिन्तनम्?

(क) विस्मितस्य (ख) शक्रस्य (ग) वैद्यस्य (घ) नृपस्य

(iii) 'अद्य विस्मितः शक्रः अचिन्तयत्।' अत्र विशेषणपदं किम्?

(क) अथ (ख) शक्रः (ग) विस्मितः (घ) अचिन्तयत्

(iv) अनुच्छेदे 'ददौ' इति क्रियायाः कर्तृपदम् किम्?

(क) तस्मै (ख) महीपालः (ग) राजा (घ) नेत्रम्

2. वाच्य परिवर्तनम् कुरुत :-

(क) बालकाः चित्राणि पश्यन्ति।

(ख) अहम् विद्यालयं गच्छामि।

(ग) वयम् फलानि खादामः।

(ग) आकाशे खगाः उत्पतन्ति।

(ङ) छात्राः विद्यालयात् आगच्छन्ति।

3. प्रश्ननिर्माणं कुरुत :-

(क) वृक्षे वानराः कूर्दन्ति।

(ख) प्रकृतिः रमणीया अस्ति।

(ग) फलानि मिष्टान्नानि सन्ति।

(घ) मम मनः शान्तम् अस्ति।

(ङ) कक्षायां सर्वे छात्राः लिखन्ति।

4. मित्रं प्रति लिखितम् पत्रं मञ्जूषापदैः पूरयित्वा पुनः लिखत :-

(i) -----

(ii) ----- गौरवः

सस्नेहम् (iii) ----- ।गतमासे अहं (iv) -----

- मात्रा च सह भ्रमणार्थं मेघालयप्रदेशम् अगच्छम्। (v) -----

--- सौन्दर्यम् अद्भुतम्। (vi) ----- सुन्दरं

पर्वतीयस्थलम् (vii) ----- वृक्षैः पर्वतैः च सुसज्जिता इयं

वस्तुतः देवभूमिः एव अस्ति। इमं सुन्दरं प्रदेशं दृष्ट्वा (viii) -----

----- यत् पर्वताः सदैव रम्याः एव। अहं त्वया सह अपि एकवारं

(ix) ----- तत्र गन्तुम् इच्छामि। आशासे आवां शीघ्रमेव

तत्र पर्वतानां मध्ये भविष्यावः।सर्वेभ्यः मम नमस्काराः कथनीयाः।

शीघ्रं मिलामः।

(x) ----- मित्रम्

रमेशः

मञ्जूषा – { भवतः, इदम्, केरलतः, विशालैः, नमस्काराः, पुनः,
अनुभूयते, मेघालयप्रदेशम्, पित्रा, पियमित्र } }

5. प्रकल्पकार्यम् (Project)- उद्यानस्य चित्रं निर्माय तस्य विषये
संस्कृतेन पञ्च वाक्यानि लिखत। (A4 Size)

Note - ग्रीष्मावकाशस्य गृहकार्यं संस्कृत-अभ्यासपुस्तिकायाम् एव
करणीयम्। (To be done in sanskrit class work notebook)

8. ARTIFICIAL INTELLIGENCE

A. Solve the following Python programs and write the output also.

1. Write a program to calculate the simple interest.
2. Program to accept marks in four subjects and find the average.
3. Program for area and perimeter of a rectangle.
4. Program to input a number and check whether it is even or odd.
5. A program to display the multiplication table of any number entered by the user.

Note:

- a) Prepare a practical file for the above question and submit it in print out format in a channel file.
- b) Front page must contain name of our school, your name, Class, Sec, Roll No, Subject Name.
- c) Print out pages either color or black & white.

B. Write the answer of the following questions in your class work copy.

1. Explain different types of ethical frameworks in detail with examples.
2. The Meta company's (formerly Face Book) artificial intelligence team recently trained an image recognition model to 85% accuracy using billions of public Instagram photos tagged with hashtags. The key technology behind this model is _____.
 - a) Computer Vision
 - b) NLP
 - c) Data
 - d) All of these
3. Rajat has made a model which predicts the performance of Indian Cricket players in upcoming matches. He collected the data of players performance with respect to stadium, bowlers, opponent team and health. His model works with good accuracy and precision value. Which of the statement given below is incorrect?
 - a. Data gathered with respect to stadium, bowlers, opponent team and health is known as Testing Data.
 - b. Data given to an AI model to check accuracy and precision is Testing Data.
 - c. Training data and testing data are acquired in the Data Acquisition stage.
 - d. Training data is always larger as compared to testing data.
4. What is the role of AI in bioethics and How does bioethics apply to organ donation? Explain ethical issue when medical institutions lack transparency?
