


HOLIDAY HOMEWORK SESSION 2026 - 27

CLASS : IX

<u>SL. NO.</u>	<u>SUBJECT</u>	<u>HOMEWORK</u>
1.	ENGLISH	<p>CLASS IX ENGLISH HOLIDAY HOMEWORK</p> <p>Q.1. “The grandmother’s clear and honest understanding of her limitations and her high self-esteem empowered her to work towards achieving self-reliance.” Justify this statement with reference to the story. Discuss how the grandmother’s act of determination has impacted the narrator. Provide examples from the story to support your answer.</p> <p>Q.2. Discuss how the theme of “Unity in Diversity” is reflected in the poem “Bharat our Land.” Shed light on how the poet Subhramania Bharati portrays India as a nation enriched with profound spiritual wisdom.</p> <p>Q.3. Fill in the blanks with the correct verb forms. Don't copy the passage. Write only the answers with serial numbers. By the time the fisherman (i) _____ (cast/casted/was casting) the net, the sun (ii) _____ (had already set/was already setting/has already set). The villagers (iii) _____ (waited/had been waiting/has waited) near the shore when the storm suddenly (iv) _____ (began/was beginning/had begun).</p> <p>Q.4. Rearrange the following jumbled words or phrases in the given dialogue to create a meaningful sentence. Person A: Can you explain how technology influences human behavior? Person B: (i) PEOPLE / IDEAS / SHARE / HAS / ONLINE / TECHNOLOGY / TALK AND/ CHANGED / TODAY / THE WAY</p> <p>Q.5. Project Work – Preparing a Comic Strip Prepare a comic strip based on any one of the episodes from the story “How I taught my Grandmother to Read.” Your comic strip must include the following</p> <ul style="list-style-type: none"> - two characters- i.e. the grandmother and the narrator - dialogue exchange between the characters - proper sequence of events <p>Materials required-</p> <ul style="list-style-type: none"> - A4 size pages (1 or 2) - pen, pencil, colour pencils or sketch pens
2.	HINDI	<p>1. नीचे दिए गए उपसर्गों पर आधारित शब्दों का एक शब्द-चक्र तैयार कीजिए।</p> <div style="text-align: center;"> </div> <p>2. 'दो बैलों की कथा' अध्याय के माध्यम से समाज को क्या संदेश मिलता है?</p>

		<p>30-35 शब्दों में लिखिए।</p> <p>3. 'राम-लक्ष्मण-परशुराम संवाद' अध्याय का मुख्य संदेश क्या है? 30-35 शब्दों में लिखिए।</p> <p>4. नीचे दिए गए चित्र का वर्णन 60 शब्दों में कीजिए।</p>  <ul style="list-style-type: none"> • इन कार्यों को अपनी हिंदी उत्तर-पुस्तिका में कीजिए। <p>PROJECT WORK (परियोजना कार्य)</p> <p>½ चार्ट पेपर या A4 साइज़ शीट पर प्रत्यय वाले शब्दों का एक पेड़ तैयार कीजिए।</p>
<p>3.</p>	<p>BENGALI</p>	<p>Project Work</p> <p>‘ছুটি’ গল্পের প্রথম দৃশ্যের একটি চিত্র প্রস্তুত করো।</p> <p>প্রশ্নগুলির যথাযথা উত্তর দাও।</p> <p>১) সভ্যতার ‘তৃষ্ণা -ক্ষুধা’ বলতে কবি কী বুঝিয়েছেন?</p> <p>২) অর্জুনের রথের নাম কী?</p> <p>৩) চিনিবাস ময়রা দুর্গাদের বাড়ির সামনে দাঁড়াতো না কেন?</p> <p>৪) “ পরদিন প্রাতঃকালে ফটিককে আর দেখা গেল না”- কেন ফটিককে দেখা গেল না? শেষ পর্যন্ত কীভাবে ফটিকের সন্ধান পাওয়া গেল?</p> <p>৫) ‘অপমানে দুঃখে সর্বজয়ার চোখে জল আসিল’- কী কারণে সর্বজয়া অপমানিত হয়েছিল? এর ফলে সে কী করেছিল?</p> <p>৬) সন্ধি করো।</p> <p>নদী+ অশ্ব, পো+অন, সাধু+ ঈ, উপরি+ উপরি, পিতৃ+ আলায়।</p> <p>৭) সন্ধি বিচ্ছেদ করো।</p> <p>স্বাধীনতা, পর্যালোচনা, নাবিক, অন্বেষণ, সীমন্ত</p>
<p>4.</p>	<p>MATHS</p>	<p>1) Find the numbers that have their decimal expansions are terminating and non terminating.</p> <p>2) Write down the representation of $2.\underline{1625}$ in the form $\frac{p}{q}$.</p> <p>3) The number $x = 1.242424\dots$ is expressed in the simplest form is $\frac{p}{q}$, then find $(p + q)$.</p> <p>4) Find the value of $(a - b)^3 + (b - c)^3 + (c - a)^3$</p> <p>5) $x + y = 12$ and $xy = 27$, then find the value of $(x^3 + y^3)$.</p>

6) **DIRECTIONS:** In question number 6 a statement of **Assertion (A)** is followed by a statement of **Reason (R)**.

(A) Both assertion and reason are true and reason is the correct explanation of assertion.

(B) Both assertion and reason are true but reason is not the correct explanation of assertion.

(C) Assertion is true but reason is false.

(D) Assertion is false but reason is true.

ASSERTION(A): 0.7 and 0.00323232.... are rational numbers.

REASON(R): If the decimal expansion of a real number is either terminating or non terminating recurring it is a rational number.

7) Calculate the following using Brahmagupta's laws

1. $(-12) \times 5$

2. $(-8) \times (-7)$

8) Find three distinct rational numbers that lie strictly between $\frac{2}{5}$ and $\frac{3}{7}$.

9) Prove that $\sqrt{7}$ is an irrational number.

10) Use the identity of the following products without multiplying directly.

1. (104×96)

2. (95×96)

11) Factorise of the following:

1) $8x^3 + 27y^3 + z^3 - 18xyz$

2) $9x^3 - \frac{8}{3}y^3 + \frac{z^3}{3} + 6xyz$

12) A rational numbers in its lowest form has denominators $2^3 \times 5$. How many decimal places will its decimal expansion?

Also explain your answer.

ACTIVITY

1) Exploring Reiaan's Bathroom (Draw this activity on a one - fourth chart paper)

1. Identify and write the coordinates of four corners O,F,R and P of the bathroom.

2. The shower area is marked as SHWR.
Find the shape formed by SHWR.
Write the coordinates of its four corners.

3. Mark:

A $3\text{ ft} \times 3\text{ ft}$ space for the washbasin

A $2\text{ ft} \times 3\text{ ft}$ space for the toilet.

Then write the coordinates of the corners of both spaces.

2) Mapping others room in the house

Reiaan's room door opens into the dining room.

The dining room has length is 18 ft and width is 15 ft .

The length extends from point P to point A.

Draw the dining room and mark the coordinates of all its corners.(use one fourth of a chart paper)

5.

SCIENCE**PHYSICS****ACTIVITY**

1. On entering a state highway, a car continues to move with a constant velocity of 6 m s^{-1} for 2 minutes and then accelerates with a constant acceleration 1 m s^{-2} for 6 seconds. Find the displacement of the car on the state highway in the 2 min 6 s time interval by drawing a velocity-time graph for its motion.
2. Draw a velocity versus time graph of a stone thrown vertically upwards and then coming downwards after attaining the maximum height.
3. An object starting from rest travels 20 m in first 2 s and 160 m in next 4 s. What will be the velocity after 7 s from the start?

CHEMISTRY

Pragya tested the solubility of three different substances at different temperatures and collected the data as given below (results are given in the following table, as grams of substance dissolved in 100 grams of water to form a saturated solution).

SUBSTANCE DISSOLVED	TEMPERATURE IN K				
	283	293	313	333	353
Potassium nitrate	21	32	62	106	167
Sodium chloride	36	36	36	37	37
Potassium chloride	35	35	40	46	54
Ammonium chloride	24	37	41	55	66

- (a) What mass of potassium nitrate would be needed to produce a saturated solution of potassium nitrate in 50 grams of water at 313 K?
- (b) Pragya makes a saturated solution of potassium chloride in water at 353 K and leaves the solution to cool at room temperature. What would she observe as the solution cools? Explain.
- (c) Find the solubility of each salt at 293 K. Which salt has the highest solubility at this temperature?
- (d) What is the effect of change of temperature on the solubility of a salt ?

BIOLOGY:

Answer the following questions:

1. 'A cell is the building block of an organism'. Justify the statement (2 marks)
2. 'Endocytosis is found only in animal cells'. Give reasons. (2 marks)

Science Activity :**Experiment:**

1. To prepare a stained, temporary mount of onion peel and to study its cells.
2. To prepare a temporary mount of human cheek epithelial cells, and to study its characteristics.

Preparation of stained temporary mounts of onion peels (Expt 1.) & human cheek cells (Expt)

to record observations and draw their labelled diagrams.

To write the same use the following format in the practical notebook: Aim

1. Materials Required
2. Procedure
3. Observation
4. Inference

Note - Use DAV CAE Practical copy for completion of the practicals.

6.

**SOCIAL
SCIENCE**

GEOGRAPHY- Draw a labeled diagram of the Interior part of the earth in an A-4 size paper.

HISTORY- Question 1. What was the Stone Age? Mention the three periods of Stone Age?

2. Discovery of Fire was a turning point for early humans. List three ways the control of fire changed daily life in the Paleolithic era

3. How did the invention of agriculture change the way of human societies were structured?

4. What major change marks the start of the Neolithic era?

CIVICS-1. Define democracy. Mention any four essential features of democratic government.

4. Distinguish between a Parliamentary system and a Presidential system.

5. Discuss the challenges faced by modern democracies.

ECONOMICS:

1. Case Study Based Question: Opportunity Cost (School Life Example)

Rohan is a student of Class 9. During the summer vacation, he had two choices. He could either join a football coaching camp or attend a computer coding class happening at the same time. Rohan loved football, but he also wanted to improve his computer skills for future career opportunities. After discussing with his parents, he decided to join the coding class.

At school, he also faced another choice during examination time. He could spend extra hours preparing for Mathematics or participate in the inter-school cricket tournament. Since his exams were approaching, he decided to study Mathematics instead of joining the tournament.

These situations helped Rohan understand that whenever a person chooses one option, they have to sacrifice another valuable option.

What is meant by opportunity cost?

Identify the opportunity cost of joining the coding class for Rohan.

What did Rohan sacrifice during examination time?

Why does every economic choice involve opportunity cost?

Explain how opportunity cost helps students make better decisions.

2. Case Study Based Question: (Central Problems of Economics)

A country named Arthland has limited natural resources, labour, and capital. The government wants to produce goods and services for the people, but resources are insufficient to satisfy all human wants.

Farmers demand more fertilizers and irrigation facilities, industries require electricity and machinery, while citizens also need better healthcare and education services.

The government faces difficult decisions. It has to decide whether more resources should be used for producing consumer goods like food and clothes or capital goods like machines and factories. It also needs to determine which production techniques should be adopted — labour-intensive methods to provide employment or machine-based methods for faster production.

स. जीवने द. एवं
घ. 'एकः अपि क्षणः' - अत्र अव्ययपदं किम् अस्ति?
अ. एकः ब. क्षणः
स. अपि

2. अधोलिखितं प्रश्नं पठित्वा उत्तराणि लिखत-

क. र-वर्णस्य उच्चारणस्थानं किम्?
ख. श-वर्णस्य उच्चारणस्थानं लिखत।
ग. ए, ऐ वर्णयोः उच्चारणस्थानं किम्?
घ. क - वर्णस्य वर्णानाम् उच्चारणस्थानं लिखत।
ङ. 'मुनिः' - इति पदे ओष्ठः वर्णः कः अस्ति?

3. सन्धियुक्तं सन्धिविच्छेदं वा कृत्वा लिखत-

क. महा+उत्सवः
ख. पौ+अकः
ग. चिदानन्दः
घ. मुनिरिव
ङ. सदा+एव

4. भवान् सुरेशः। भवतः मित्रं मिहिरः परीक्षायाम् उत्तमाङ्कान् न प्राप्तवान् अतः हतोत्साहितः। तं प्रेरयन्तं लिखितं पत्रं मञ्जूषायां प्रदत्तपदैः पूरयत-

रानीगंज

दिनाङ्कः.....

प्रियं (i)..... मिहिरः!

अत्र सर्वगतं कुशलमस्ति तव च कुशलम् ईश्वरं प्रार्थयामि। मया ज्ञातं यत् स्वपरीक्षापरिणामं दृष्ट्वा (ii).....भवान् अग्रे न पठिष्यति इति। मित्र! स्वीकरोमि अहं यत् (iii).....समारम्भादेव भवान् सर्वदैव उत्तमाङ्कान् एव प्राप्नोति स्म। परं मित्र एकया असफलतया एतादृशः हतोत्साहितः तु मा भवेत्। (iv).....एतादृशं मूल्यहीनं तु नास्ति वयम् एवमेव समापयेम। यदा पिपीलिकाः अपि पुनः पुनः प्रयासेन भित्तिम् आरोढुम् समर्थाः भवन्ति। तदा असफलः भूत्वा अपि नरः नवीनोत्साहेन सफलतायै (v).....किमर्थं न कुर्यात्? वस्तुतः सफलता अपि असफलतायाः सोपानानि (vi).....उत्तीर्य एव प्राप्यते। मनुष्यः एव सृष्टेः (vii).....कृतिः। सः बुद्धिबलेन सदैव नवीनान् उपायान् (viii).....। आशासे यद् भविष्ये त्वमेतादृशं चिन्तयिष्यसि जीवनमूल्यं च अवगमिष्यसि।

तव (ix).....मित्रम्

(x)_____

मञ्जूषा- (i) सर्वोत्तमा, (ii) मानवजीवनम्, (iii) अभिन्नम्, (iv) धैर्येण, (v) मित्र, (vi) निराशः, (vii) शिक्षायाः, (viii) प्रयत्नम्, (ix) चिन्तयति, (x) सुरेशः।

		<p>प्रकल्पकार्यम् - पुष्प-आरेख माध्यमेन क्त्वा ल्यप् प्रत्ययस्य प्रयोगं कुर्वन्तु।</p> <p>Note - ग्रीष्म-अवकाशस्य गृहकार्यं संस्कृत-अभ्यासपुस्तिकायाम् एव करणीयम्</p>								
<p>8.</p>	<p>INFORMATION TECHNOLOGY</p>	<p><u>Write the answer of the following questions in your class work copy.</u></p> <p>1. List the various uses of IT in a banking system.</p> <p>2. Explore and Explain the impact of IT and ITes in various areas in day-to-day life.</p> <p>3. A school started smart classes and online homework submission. Students now attend classes through video conferencing during emergencies.</p> <p>a) Which field of IT is used here?</p> <p>b) Name one software used for online classes.</p> <p>c) Write two benefits of digital learning.</p> <p>d) Mention one disadvantage of online education.</p> <table border="1" data-bbox="571 954 1485 1245"> <thead> <tr> <th data-bbox="571 954 1086 1025">IT</th> <th data-bbox="1086 954 1485 1025">ITes</th> </tr> </thead> <tbody> <tr> <td data-bbox="571 1025 1086 1099">Software development</td> <td data-bbox="1086 1025 1485 1099">Customer support</td> </tr> <tr> <td data-bbox="571 1099 1086 1173">Networking</td> <td data-bbox="1086 1099 1485 1173">Call centers</td> </tr> <tr> <td data-bbox="571 1173 1086 1245">Data management</td> <td data-bbox="1086 1173 1485 1245">Online services</td> </tr> </tbody> </table> <p>4. Write atleast 5 differences between IT and ITes.</p> <p>5. Draw and explain Communication Process. Use colourful diagrams and examples from daily life.</p>	IT	ITes	Software development	Customer support	Networking	Call centers	Data management	Online services
IT	ITes									
Software development	Customer support									
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