SUMMER HOLIDAY WORKSHEET

CLASS: X   **SESSION: 2025-26**

ENGLISH WORKSHEET - 1

Section A: Reading Comprehension

Read the following passage carefully and answer the questions that follow-
 Passage:

April 26, 2025 | New Delhi
In a major push towards sustainable urban transport, Delhi Metro today inaugurated its first fully solar-powered station at Rohini Sector 25. The project, a joint effort between Delhi Metro Rail Corporation (DMRC) and a leading renewable energy firm, aims to reduce the city's carbon footprint. The station's solar panels are expected to generate 1.5 megawatts of electricity, enough to power all its operations. Officials said that similar installations are being planned across other stations in the network, in line with Delhi's vision to become a greener and more eco-friendly city by 2030.

Comprehension Questions:
1. What major development did the Delhi Metro announce recently?
2. Where is the newly inaugurated solar-powered station located?
3. How much electricity will the solar panels generate?
4. Find the meaning of the word "inaugurated" from the passage.
(a) Planned
(b) Officially opened
(c) Launch
(d) Both b & c

Section B: Integrated Grammar

5.Editing
The following passage has an error in each line. Identify the incorrect word and the correction.
The battle was fought among the Pandavas and the Kauravas.
2)It was a war of truth against the false.

6.Omission
In the passage below, one word is missing in each line. Write the missing word and the word that comes before and after it.
Example:
Before | Missing | After
The Mahabharata is treasure Indian culture.
is | a | treasure
1)Arjuna was courageous and skilled archery.
2)Bhishma was known his vow of loyalty.

7. Gap Filling
Fill in the blanks with the correct form of the word or suitable prepositions:
1.The Mahabharata is believed to be written ___ (by / in / at) Sage Vyasa.
2.Krishna advised Arjuna to fight ___ (for / with / without) fear or hesitation

8. Fill in the blank with the correct form of the verb:
1.If he _____ (not miss) the bus, he _____ (be) on time for the meeting.
(a) did not miss, will be
(b) had not missed, would have been
(c) has not missed, would be
(d) had not missed, will b

9. Choose the correct indirect speech form:
1.Rita said to her brother, "Can you help me with my homework tomorrow?"
(a) Rita asked her brother if he can help her with her homework the next day.
(b) Rita asked her brother if he could help her with her homework the next day.
(c) Rita said her brother could help her homework tomorrow.
(d) Rita asked her brother could he help her with homework the following day.

10. Identify the part of speech of the underlined word:

1.They completed the project before the deadline.

What is the part of speech of "before"?

(a) Preposition

(b) Conjunction

(c) Adverb

(d) Interjection

Instructions:

•**Complete all questions neatly in your notebook.**

•**Answers must be original; copied work will not be accepted.**

•**Submission date:**

SUMMER HOLIDAY WORKSHEET

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ENGLISH WORKSHEET - 2

Section A: MCQs (Choose the correct answer)

1.In **A Question of Trust**, Horace Danby was successful at stealing for:

(a) Three years

(b) One year

(c) Fifteen years

(d) Five years

2.In **Sermon at Benares**, what did Buddha realize after witnessing suffering?

(a) Death is inevitable

(b) Wealth brings happiness

(c) Suffering can be avoided

(d) Life is permanent

3.In **How to Tell Wild Animals**, the Bengal tiger is described as:

(a) Roaring and terrifying

(b) Noble and wild

(c) Quiet and sneaky

(d) Leaping at you

4.In **Amanda**, what does Amanda imagine herself to be when she dreams of freedom?

(a) A bird

(b) A mermaid

(c) A princess

(d) A pirate

Section B: Short Answer Questions (30–40 words each)

5.Why did Horace Danby feel justified in robbing once every year?

6.What lesson did Buddha teach through the story of Kisa Gotami?

7.How does the poet use humour in How to Tell Wild Animals?

8.Why does Amanda wish to be an orphan?

Section B: Long Answer Questions (80–100 words each)

9.**A Question of Trust**: How was Horace Danby tricked during his last robbery? What does this reveal about him?

10.**Amanda**: Discuss how the poem highlights the contrast between Amanda's imagination and the restrictions placed on her.

Instructions:

Complete all questions neatly in your notebook.

Answers must be original; copied work will not be accepted.

Submission date:

SUMMER HOLIDAY WORKSHEET

CLASS: X   **SESSION: 2025-26**

MATHEMATICS WORKSHEET - 1

TOPIC: REAL NUMBERS

1. 3.24636363... is
(a) a terminating decimal number (b) a non-terminating repeating decimal number (c) a rational number (d) both (b) and (c)

2. HCF of 8, 9, 25 is
a) 8(b)9 (c) 25 (d) 1

3. If the HCF of 85 and 153 is expressible in the form 85m – 153, then the value of m is
a) 1 (b) 4 (c) 3 (d) 2

4. If two integers a and b are written as $a = x^3 y^2$ and $b = xy^4$; x, y are prime numbers, then H.C.F. (a, b) is
(a) $x^3 y^3$ (b) $x^2 y^2$ (c) xy (d) xy^2

5. If least prime factor of a is 3 and least prime factor of b is 7, the least prime factor of (a + b) is:
(a) 2 (b) 3 (c) 5 (d) 11

6. Can two numbers have 24 as their HCF and 7290 as their LCM? Give reasons.

7.In a school, the duration of a period in junior section is 40 minutes and in senior section is 1 hour: If the first bell for each section ring at 9:00 a.m., when will the two bells ring together again?

8. Explain why $7 \times 11 \times 13 + 13$ and $7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 + 5$ are composite numbers.

9. The LCM of two numbers is 14 times their HCF. The sum of LCM and HCF is 600. If one number is 280, then find the other number.

10.

(i) What is the minimum number of books you will acquire for the class library, so that they can be distributed equally among students of Section A or Section B?

(ii) If the product of two positive integers is equal to the product of their HCF and LCM is true then, what is the HCF (32 , 36)

(iii) If p and q are positive integers such that p = a and q= b, where a, b are prime numbers, then the LCM (p, q)

SUMMER HOLIDAY WORKSHEET

CLASS: X   **SESSION: 2025-26**

MATHEMATICS WORKSHEET - 2

TOPIC: POLYNOMIALS

1. Find the Zeroes of the following quadratic polynomials and verify the relationship between the zeroes

a)$5x^2-29x+20$ (b) $x^2-x - 72$ (c) x^2-9 (d)x^2-5x (e) x^2-2

2. Form the Quadratic polynomials whose zeros are (i) $3/2$, $-½$ (ii)¼, ½ (iii)$1/a$, $1/b$ (iv) -5, -3
 (v) 3, $-1/5$

3. Find all the Zeroes of x^2 $-6x-7$ if x+1 is a factor.

4. Find all the Zeroes of $x^2-10x-300$.

5. Find the value of a ,if one zero of polynomial $2x^2+7ax-15$ is 5

6. Divide $2x^2-11x+14$ by(x-2) to find if it is a zero.

7. Find the value of k if (x-2) is a factor of $x^2-kx+10$

8. Find the value k if 2 is zero of $3x^2-17x+k$.

9. Prove if x-2 is a factor of $4x^4 - 20x^3 + 23x^2 + 5x - 6$

10.Case Based Question:

An asana is a body posture, originally and still a general term for a sitting meditation pose, and later extended in hatha yoga and modern yoga as exercise, to any type of pose or position, adding reclining, standing, inverted, twisting, and balancing poses. In the figure, one can observe that poses can be related to representation of quadratic polynomial.

(i)   What are the shapes of the poses shown above and also find the result if graph of that shape opens downwards?

(ii) Find the zeros of the quadratic polynomial $4\sqrt{3}x^2 +5x-2\sqrt{3}$

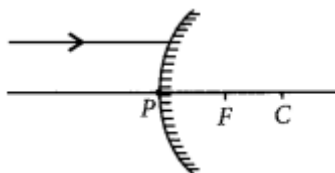(iii)   Find a quadratic polynomial if zeros are $\sqrt{3}/2$ and -7

1. State the two laws of reflection of light.
2. A ray of light is incident on a convex mirror as shown. Redraw the diagram and complete the path of this ray after reflection from the mirror. Mark angle of incidence and angle of reflection on it.

3. The refractive index of diamond is 2.42. What is the meaning of this statement?Light enters from air to glass, having a refractive index 1.50. What is the speed of light in the glass? The speed of light in vacuum is 3 x 108 ms-1

4. The linear magnification produced by a spherical mirror is +3. Analyse this value and state the (i) type of mirror and (ii) position of the object with respect to the pole of the mirror. Draw a ray diagram to show the formation of the image in this case.

5. What is a balanced chemical equation? Why should chemical equations be balanced?

6. Identify the type of chemical reaction in the following and give one more example of each:

   (a) Calcium carbonate → Calcium oxide + Carbon dioxide

   (b) $Fe + CuSO_4 \rightarrow FeSO_4 + Cu$

7. During a lab activity, students observed that when sodium sulphate solution is mixed with barium chloride solution, a white precipitate is formed.

   (a) Write the balanced chemical equation for the reaction.

   (b) Name the type of chemical reaction.

   (c) Explain the formation of the precipitate.

8. How is the small intestine designed to absorb digested food?

9. (a) Trace the movement of oxygenated blood in the body.

   (b) Write one structural difference between the composition of artery and vein.

10. Explain the process of aerobic respiration in the mitochondria of a cell and anaerobic respiration in yeast and muscle with the help of word equations.
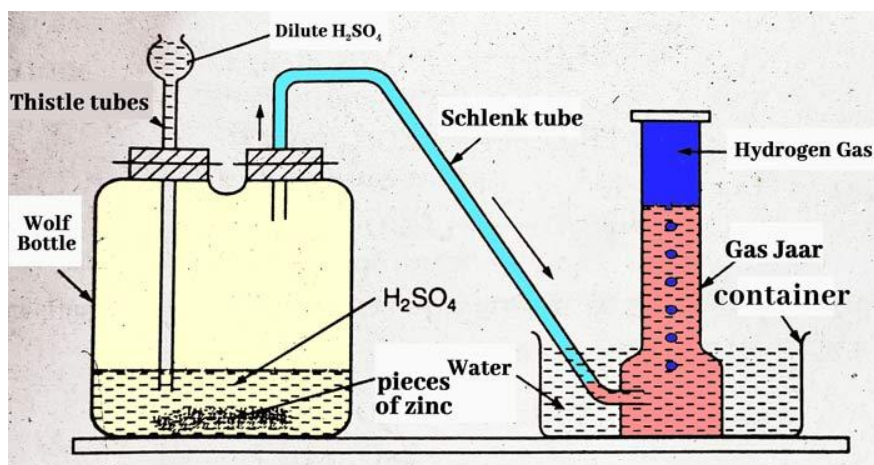
1. Write the laws of refraction.
2. List four characteristics of the images formed by plane mirrors.
3. A concave mirror has a focal length of 20 cm. At what distance from the mirror should a 4 cm tall object be placed so that it forms an image at a distance of 30 cm in front of the mirror? Also calculate the size of the image formed.
4. If the image formed by the mirror for all positions of the object placed in front of it is always virtual and diminished, state the type of the mirror. Draw a ray diagram in support of your answer. Where are such mirrors commonly used and why?
5. When silver chloride is exposed to sunlight, it turns grey. Write the chemical reaction involved and identify the type of reaction.
6. An iron gate develops brown flakes on it over time.
   (a) Name the phenomenon.
   (b) Write the chemical equation for the reaction.
   (c) Suggest one method to prevent it.

7.   (a) Name the gas.
   (b) Write the balanced chemical equation involved in the reaction.
   (c) Why is the gas collected by downward displacement of water?
8. What would happen if platelets were absent in the blood?
9. "Blood circulation in fishes is different from the blood circulation in human beings." Justify the statement.
10. (a) Rings of cartilage are present in the trachea. Why?
   (b) Why is the small intestine in herbivores longer than in carnivores?

SUMMER HOLIDAY WORKSHEET

CLASS: X   **SESSION: 2025-26**

SOCIAL SCIENCE WORKSHEET - 1

TOPIC : THE RISE OF NATIONALISM IN EUROPE , POWER SHARING

I. VERY SHORT ANSWER TYPE QUESTIONS

1.Define Conservatism. Highlight any one feature of this belief.
2. Who were the liberal nationalist?
3. What happens when the power is shared among the governments at different levels?
4. How did the Tamils make efforts to gain power in Sri Lanka ?

II.SHORT ANSWER TYPE QUESTIONS

1."Vernacular language and local folklores carried modern nationalist message to large audiences, who were mostly illiterate." Justify with suitable examples.
2.Elucidate the conditions that led to the development of a new middle class in Europe.
3.The ethnic composition of Belgium is very complex.Justify the statement.
4. "Power Sharing is the very spirit of democracy."Justify the statement.

III.LONG ANSWER TYPE QUESTIONS

1.In Britain, the formation of the nation-state was not the result of a sudden upheaval or revolution. Validate the statement with relevant arguments.
2.How has the idea of power sharing emerged? Explain different forms that have common arrangements of power sharing.

TOPIC: RESOURCES & DEVELOPMENT, FOREST & WILDLIFE RESOURCES, WATER RESOURCES, DEVELOPMENT

I. VERY SHORT ANSWER TYPE QUESTIONS

1. Suggest any two ways to check land degradation.
2. What are normal species?
3. What was considered as a viable alternative to the multipurpose projects?
4. What is Net Attendance ratio?

II. SHORT ANSWER TYPE QUESTIONS

1. What is the role of humans in resource development ?
2. What is Sustainable Development?
3. Is it possible that an area or region may have ample water resources but is still facing water scarcity? Explain with the help of three relevant examples.
4. "Forests play a key role in the ecological system." Highlight the value of forests in our life.

III. LONG ANSWER TYPE QUESTIONS

1. What has been the contribution of the Indian Wildlife Protection Act in protecting habitats in India? Explain.
2. 'What may be development for one may not be development for the other.' Explain by giving example.

A.নীচের অংশটি থেকে সঠিক উত্তর বেছে লেখো।

1.তপনের লেখা গল্প নিয়ে ছোটোমাসি 'হইচই' করায় তপন কী অনুভব করেছিল।

i)লজ্জা ii) অনুতাপ iii) পুলক iv) বিরক্তি

2.'জ্ঞানচক্ষু' খুলে গেল মানে -

i) বোঝার ক্ষমতা হল   ii)বোঝার ক্ষমতা কমে গেল   iii)বোঝার ক্ষমতা চলে গেল   iv)বোঝার ইচ্ছা বেড়ে গেল

3. 'কীরে তোর যে দেখি পায়া ভারী হয়ে গেল' - 'পায়া ভারী' মানে

i) খ্যাতি বেড়ে যাওয়া   ii)অহংকার দেখা দেওয়া   iii)লজ্জা কমে যাওয়া   iv) ,খুশিতে আত্মহারা হওয়া

4. 'ক্রমশ ও কথাটাও ছড়িয়ে পড়ে।' - কোন্ কথাটা ?

i)গল্প লেখার কথাটা ii)গল্প ছাপার কথাটা   iii)মেসোর সাহায্যের কথাটা   iv)মেসো-মাসির আসার কথাটা

5.তপনের চেয়ে ছোটমাসি কত বছরের বড়ো ?

i)বছর আষ্টেকের   ii)বছর দশেকের   iii)বছর নয়েকের   iv)বছর এগারোর

6.আলোবাবুর কীসের সঙ্গে ঘড়ির দম-এর তুলনা করেছেন?

i)আমাদের শ্বাসের সঙ্গে ii)আমাদের খাবারের সঙ্গে   iii)আমাদের শরীর-চর্চার সঙ্গে   iv)আমাদের সুখ-শান্তির সঙ্গে

7.লেখক আলোবাবুকে কতবার হ্যাট বাজিয়ে গান গাইতে দেখেছিলেন?

i)একবার ii)দুবার   iii)তিনবার   iv)চারবার

৪.আলোবাবু গলায় কিসের মলা পরতেন?

i) পুঁতির   ii) তুলসীর   iii)রুদ্রাক্ষের   iv)ফুলের

1.বাক্য পরিবর্তন কর।

ক.তিনি গরীব হলেও তাঁর মনটা উদার। (যৌগিক বাক্যে)

খ.বৃষ্টি হোক তবু আমি খেলতে যাব। (সরল বাক্যে)

গ.প্রভাত হইলে পথিকেরা যাত্রা করিল। (জটিল বাক্যে)

ঘ.যদি জানতাম তবে যেতাম না। (সরল বাক্যে)

ঙ.অবিনাশবাবুর কথাটা মনে পড়ল। (যৌগিক বাক্যে)

চ.সে শুনে স্তম্ভিত হয়ে গেল। (জটিল বাক্যে)

निम्नलिखित प्रश्नों के संक्षिप्त उत्तर लिखिए-

1.कृष्ण के प्रति अपने अनन्य प्रेम को गोपियों ने कैसे व्यक्त किया है?

2.गोपियों को कृष्ण में ऐसे कौन-से परिवर्तन दिखाई दिए, जिनके कारण वे अपना मन वापस लेने की बात कहती हैं?

3.'जागत-सोवत स्वप्न दिवस-निसि, कान्ह-कान्ह जकरी।' इस पंक्ति द्वारा गोपियों की किस मनःस्थिति का वर्णन किया गया है?

4.'मरजादा न लही' के माध्यम से कौन-सी मर्यादा न रहने की बात की जा रही है?

5.निम्नलिखित वाक्य का सरल वाक्य क्या होगा-

'समूचा गाँव खेतों में उतर पड़ा है और रोपनी कर रहा है।'

6.निम्नलिखित वाक्य में रेखांकित उपवाक्य का भेद लिखिए-कबीर के <u>जो सीधे-सादे पद थे,</u> वे उनके कंठ से निकलकर सजीव हो उठते।

7.निम्नलिखित वाक्य में रेखांकित उपवाक्य का भेद लिखिए-

<u>कभी झूठ नहीं बोलते</u> और खरा व्यवहार रखते।

8. अनुच्छेद लेखन –

i) मानव और प्राकृतिक आपदाएँ

ii) सड़क सुरक्षा: जीवन रक्षा

iii) एक भारत, श्रेष्ठ भारत

9.समस्त औपचारिकताएँ पूर्ण करने पर भी आधार कार्ड न मिलने की शिकायत करते हुए संबंध अधिकारी को पत्र लिखिए।

10.आप प्रगति विद्यालय के साची/सचिन हैं। स्कूली शिक्षा में स्मार्ट कक्षाओं की बढ़ती भूमिका को देखते हुए विद्यालय में भी स्मार्ट बोर्ड लगाए जाने का अनुरोध करते हुए अपने क्षेत्र के शिक्षा पदाधिकारी को लगभग 100 शब्दों में एक पत्र लिखिए।

निम्नलिखित प्रश्नों के संक्षिप्त उत्तर लिखिए-

1. नेताजी की मूर्ति में कौन-सी कमी खटकती थी?

2. मूर्ति की कमी को कौन और किस तरह पूरा करने का प्रयास करता था?

3. नेताजी की मूर्ति पर सरकंडे का चश्मा देखकर हालदार साहब भावुक क्यों हो उठे?

4. कैप्टन मूर्ति का चश्मा बार-बार क्यों बदल देता था?

5. महापुरुषों की मूर्ति के प्रति हमारा क्या उत्तरदायित्व होना चाहिए?

निम्नलिखित अतिलघूत्तरात्मक प्रश्नों के उत्तर लिखिए–

क) 'मेरे जीवन का लक्ष्य है कि <u>मैं डॉक्टर बनूँ</u>।' वाक्य में रेखांकित उपवाक्य का भेद लिखिए।

(ख) 'मैं वहीं जा रहा हूँ, जहाँ से तुम आए हो।' वाक्य में आश्रित उपवाक्य छाँटिए।

(ग) 'यह वही लड़का है, <u>जो कल आया था</u>।' रेखांकित उपवाक्य का भेद लिखिए।

(घ) '<u>मैंने सोचा</u> कि वह ज़रूर आएगा।' रेखांकित किस प्रकार का वाक्य है?

(ङ) 'राम बोला, मैं दिल्ली जा रहा हूँ।' रचना के आधार पर यह वाक्य का कौन-सा भेद है?