

Autumn BREAK HOLIDAY HOMEWORK- (2026-27)

CLASS VI

HINDI	1.अनुच्छेद लेखन - मेरा विद्यालय प्रिय त्योहार कम्प्यूटर 2.संवाद लेखन- ग्राहक और सब्जी विक्रेता के मध्य हुई बातचीत । गृहकार्य पूरा नहीं होने पर शिक्षक और छात्र के मध्य हुई वार्ता। 3. पत्र लेखन (क) दो दिन का अवकाश लेने हेतु विद्यालय के प्रधानाचार्य जी को प्रार्थना-पत्र लिखिए। (ख) मित्र को जन्मदिन की बधाई देते हुए पत्र लिखिए । 4.पाँच पेज सुलेख लिखें। 5. रोज पठन अभ्यास करें(पुस्तक या समाचार पत्र)। 6. कक्षा व्हाट्सएप समूह पर भेजी गई MDP की फाइल तैयार करें
ENGLISH	AUTUMN BREAK HOLIDAY HOMEWORK Dear JioHome Customer, Restoration of your JioHome services for JioFixedVoice Number 1135942140 in your area is taking a little longer than expected. Please be assured our team is working continuously on priority, and we now expect services to be restored by 15-10-2026 12:15 PM. We apologise for the inconvenience and appreciate your patience. Team JioHome Class: VI Subject: English Session: 2026–27 General Instructions: 1. Complete all the work neatly in your English notebook or on A4-size sheets wherever required. 2. Write in your own words and use correct grammar and punctuation. 3. Make your work creative, colourful and presentable. 4. Read an English storybook during the holidays. A. Reading Skills 1. Read any one English storybook and write: - Name of the book and author - Names of the main characters - A summary of the story in 100–120 words - The moral or message of the story 2. Read a newspaper article or a short English story every day and write down five new words with their meanings. B. Writing Skills 3. Write a paragraph in 100–120 words on any one of the following topics: - My Favourite Festival - The Importance of Cleanliness - My Dream for India - How I Spent My Autumn Break 4. Write a letter to your friend describing how you celebrated a festival with your family. 5. Write a diary entry about a memorable day during your autumn break. C. Grammar Practice

	6. Identify the nouns, pronouns, adjectives and verbs in ten sentences of your own. 7. Write five sentences each using: - Simple Present Tense - Simple Past Tense - Simple Future Tense 8. Prepare a vocabulary chart of 15 new English words, including their meanings and sentences. 9. Write a short story of 150 words beginning with: “It was a cold autumn morning when I heard a strange sound outside my window...”
MATHS	. Use a protractor to draw angles having the following degree measures: a. 110° b. 40° c. 75° d. 112° e. 134° Q2.A) . Draw the letter 'M' such that the angles on the sides are 40° each and the angle in the middle is 60°. B) Draw the letter 'Y' such that the three angles formed are 150°, 60° and 150° Q3.Puzzle: I am an acute angle. If you double my measure, you get an acute angle. If you triple my measure, you will get an acute angle again. If you quadruple (four times) my measure, you will get an acute angle yet again! But if you multiply my measure by 5, you will get an obtuse angle measure. What are the possibilities for my measure?(PAGE 54) Q4.DIGIT DETECTIVES: Among the numbers 1–100, how many times will the digit '7' occur? (PAGE 61 FROM GANIT PRAKASH) Q5.Puzzle time Write the number in words: I am a 5-digit palindrome. I am an odd number. My 't' digit is double of my 'u' digit. My 'h' digit is double of my 't' digit. Who am I? _____(ACTIVITY PAGE 62) tth th h t u Write the number in words: Q6.Write all possible 3-digit palindromes using these digits.(1,2,3) (ACTIVITY PAGE 61) Q7. How many rounds does the number 5683 take to reach the Kaprekar constant? (page 65) HINT: You will always reach the magic number '6174'! The number '6174' is now called the 'Kaprekar constant' Q8. The time now is 10:01. How many minutes until the clock shows the next palindromic time? What about the one after that? (page 65) Q9. Write any 5 CLOCK NUMBERS AND 5 CALENDER NUMBERS . (page 65)

Q10. (PAGE 66)

Write an example for each of the below scenarios where possible.

5-digit + 5-digit to give a 5-digit sum more than 90,250	5-digit + 3-digit to give a 6-digit sum	4-digit + 4-digit to give a 6-digit sum	5-digit + 5-digit to give a 6-digit sum	5-digit 5-digit give 18,5
5-digit – 5-digit to give a difference less than 56,503	5-digit – 3-digit to give a 4-digit difference	5-digit – 4-digit to give a 4-digit difference	5-digit – 5-digit to give a 3-digit difference	5-digit 5-digit give 91,5

SCIENCE

Science Holiday Homework – Class-VI

General Instructions

- * Complete all written work neatly in your Science notebook.
- * Draw labelled diagrams wherever required.
- * Perform activities using safe, easily available materials.
- * Write answers in your own words and observe your surroundings.

Part A: Journey of Water

I. Answer the following questions.

1. What is the water cycle? Explain its main stages.
2. What is evaporation? Give two examples from daily life.
3. How does condensation take place in nature?
4. What is precipitation? Name its different forms.
5. Why is the Sun important for the water cycle?
6. How does water reach rivers, lakes and groundwater?
7. Why should we conserve water even though it is continuously recycled in nature?
8. What is the difference between groundwater and surface water?
9. How do trees and plants help maintain the water cycle?
10. Suggest five ways to save water at home and at school.

II Complete the sentences.

1. The change of water into water vapour is called ____.
2. The change of water vapour into tiny water droplets is called ____.
3. The main source of energy for the water cycle is the ____.

4. Water that collects beneath the Earth's surface is called ____.

5. Rain, snow and hail are forms of ____.

III. Diagram-based activity

Draw a neat, colourful and labelled diagram of the water cycle. Include:

* Sun

* Evaporation

* Condensation

* Clouds

* Precipitation

* Collection of water

* Runoff and infiltration

Part B: Separation Methods

IV. Answer the following questions.

1. What is separation? Why do we need to separate different components of a mixture?

2. What is handpicking? Give two examples.

3. Explain the process of sieving with a suitable example.

4. What is sedimentation? How is it different from decantation?

5. Explain filtration with the help of a labelled diagram.

6. What is evaporation? How can it be used to obtain salt from seawater?

7. Differentiate between soluble and insoluble substances with two examples each.

8. Which method would you use to separate:

* Stones from rice?

* Bran from flour?

* Tea leaves from tea?

* Sand from water?

* Salt from salt solution?

* Iron filings from sand?

9. Why is winnowing commonly used by farmers?

10. Can we separate a mixture of salt and sand using only filtration? Explain your answer.

V Match the following.

Column A	Column B
1. Handpicking	a. Separating tea leaves from tea

	2. Sieving b. Separating iron filings 3. Filtration c. Removing stones from rice 4. Magnetic separation d. Separating flour from bran 5. Evaporation e. Obtaining salt from salt solution VI. Think and answer. 1. A mixture contains sand, salt and iron filings. Describe the steps you would follow to separate all three components. 2. Your mother finds small stones mixed with pulses. Which separation method should she use and why? 3. Why is it difficult to separate very fine insoluble particles from water by handpicking? 4. A wet shirt dries faster on a sunny, windy day than on a humid day. Explain why. 5. A farmer wants to separate lighter husk from heavier grains. Which method would be most suitable? Part C: Fun Science Activities Activity 1: Make a Mini Water Cycle Take a transparent zip-lock bag and add a small quantity of coloured water. Seal it and tape it to a sunny window. Observe it for two to three days. * Record your observations. * Identify evaporation and condensation. * Draw the changes you observe. [Safety: Do not drink the coloured water.] Activity 2: Separate a Mixture Mix clean sand, water and a few small pebbles in a transparent container. Separate the pebbles, allow the sand to settle, and ...
SOCIAL SC.	Holiday Homework -Social Science 1.Make MDP Project on Topic-Disaster Management-Preparedness and protection. 2.Make a list of topics learned by you from July-October in a new Note book of learner Diary. 3.Draw the map showing Ocean and Continent. 4.Write Detailed on Significance of Navratri and Dashahara festival in India. 5.Write Name of states and capital. 6.write the Name of Indian Prime Minister and President.
SANSKRIT	1. संस्कृतवर्णमालां सुन्दरलेखेन लिखत। 2. 'बालक' शब्दस्य शब्दरूपाणि लिखत। 3. 'पठ्' धातोः लट्-लकारस्य रूपाणि लिखत।

	4. पञ्च फलानां तथा पञ्च पुष्पाणां नामानि संस्कृते लिखत। 5. पञ्च पशूनां तथा पञ्च पक्षिणां नामानि संस्कृते लिखत। 6. 'मम विद्यालयः' इति विषयम् अधिकृत्य पञ्च सरलवाक्यानि लिखत। 7. पाठ्यपुस्तकात् दश नवीनशब्दान् तेषाम् अर्थः सह लिखत। एकं संस्कृतसुभाषितं लिखित्वा तस्य हिन्दी-अर्थं लिखत। 9. पञ्च संस्कृतवाक्यानि लिखित्वा तेषां हिन्दी-अनुवादं कुरुत। 10. एकं सुन्दरं संस्कृतचित्रं निर्माय तस्य नामानि संस्कृते लिखत। निर्देशाः सर्वं कार्यं संस्कृत-उत्तरपुस्तिकायां स्वच्छतया लिखत। प्रतिदिनं संस्कृतस्य पठनं लेखनं च अभ्यासं कुरुत। गृहकार्यं समये पूर्णं कृत्वा विद्यालयम् आगच्छत।
COMPUTER	Activities 1. Make a chart or a 4–5 slide PowerPoint on the following: • Explain the three domains of AI with one example each from daily life. • Show the difference between AI and Automation with one example. • List at least three AI applications you use in everyday life (like voice assistant, YouTube recommendations, or maps). 2. Draw or paste pictures to show how AI is used in daily life (optional but encouraged). Submission • All answers in your notebook. • Activities on chart paper or as a PowerPoint.

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CLASS VII

HINDI	1.आप ने अपना ग्रीष्मकालीन अवकाश कैसे बिताया, हर दिन की गतिविधि को (कम से कम दो वाक्य प्रतिदिन) डायरी प्रारूप में लिखिए। 2.अपनी पसंदीदा पेंटिंग (किसी भी विषय पर) बनाइए और उसके बारे में विस्तार से वर्णन करके लिखिए। 3.अपने परिवार के किसी सदस्य के बारे में परिचयात्मक अनुच्छेद लिखिए। 4.पाठ्य पुस्तक 'मल्हार' से 'वर्षा बहार' अध्याय पढ़कर आपको इनमें क्या समझ में आया लिखकर लाएं।
ENGLISH	Q1. Reading Comprehension: Read a short story of your choice and write its summary in 100–120 words. Also, write the moral of the story. Q2. Identify the type of phrase (noun, verb, adjective, adverb or prepositional) in the following sentences: a) The girl with long hair is my friend. b) He was reading an interesting book. c) The boy ran with great speed. d) Her dream to become a doctor came true. e) The children were playing in the garden. Q3. Vocabulary: Write five idioms and five proverbs with their meanings. Use any five of them in meaningful sentences. Q4. Letter Writing: Write a letter to the Principal of your school requesting permission to organise a cleanliness drive in the school campus. Mention the importance of cleanliness and how students can contribute to keeping the school clean. (120–150 words) Q5. Diary Entry: Imagine you are Jahnvi from The Day the River Spoke. Write a diary entry describing your adventure with the river. (120 words) Q6. Creative Activity: Create a crossword or word-search puzzle using ten new words from your English textbook Poorvi. Write the meanings of the words separately.
MATHS	Section A: Multiple Choice Questions 1. Which of the following is an algebraic expression? (a) $7+8$ (b) $5x+3$ (c) $10-4$ (d) $12\div3$ 2. If $x=4$, what is the value of $3x+5$? (a) 12 (b) 15 (c) 17 (d) 19 3. The expression for '5 more than a number y' is: (a) $y+5$ (b) $y-5$ (c) $5-y$ (d) $5y$ 4. Which of the following represents 2 less than 13 times a number m?

- (a) $13m-2$ (b) $2m-13$ (c) $13-2m$ (d) $2-13m$
5. In $5n$, the letter n is called:
- (a) Constant (b) Variable (c) Coefficient (d) Term
6. If $k=2$, find the value of $7k$.
- (a) 7 (b) 14 (c) 9 (d) 12
7. Which property is used in $3 \times (4+5) = 3 \times 4 + 3 \times 5$?
- (a) Commutative (b) Distributive (c) Associative (d) Identity
8. The n th term of the sequence 4, 8, 12, 16, ... is:
- (a) $4n$ (b) $n+4$ (c) $2n$ (d) $4+n$
9. Which one is not an algebraic expression?
- (a) $7a+5$ (b) $3p-2q$ (c) 45 (d) $2x^2+3$
10. If $p=3$ and $q=2$, value of $2p+3q$ is:
- (a) 12 (b) 13 (c) 15 (d) 18
11. The expression $10(y-3)$ means:
- (a) $10y-3$ (b) $3-10y$ (c) $10 \times (y-3)$ (d) $y-30$
12. Which is the numerical coefficient in $9x$?
- (a) 9 (b) x (c) $9x$ (d) None
13. If $a=5$, $b=2$, find value of $3a+2b$.
- (a) 17 (b) 19 (c) 21 (d) 15
14. Which term is same as $5u$?
- (a) $u+5$ (b) $5 \times u$ (c) $5-u$ (d) $u \div 5$
15. Algebraic expression for '13 less than twice a number n ' is:
- (a) $2n-13$ (b) $13-2n$ (c) $13n-2$ (d) $2-13n$
16. Which of the following is a like term with $7x$?
- (a) 7 (b) x^2 (c) $3x$ (d) $2y$
17. The expression $8x+3y$ represents:
- (a) Sum of two terms (b) Product (c) Difference (d) None
18. If $r=2$, $s=3$, find value of $2r+2s+24$.
- (a) 28 (b) 30 (c) 34 (d) 32
19. Which of the following is not a variable?
- (a) a (b) b (c) 4 (d) x

20. Simplify: $20+8\times(16-6)$.

(a) 80 (b) 100 (c) 60 (d) 40

Section B: Short Answer Questions

1. Write an expression for: a number increased by 7.

2. If $m=2$, find the value of $5m+3$.

3. Evaluate $83+28-13+32$.

4. Simplify: $42+15-(8-7)$.

5. Write the algebraic expression for: 4 less than a number x .

6. Check whether $5u$ and $5+u$ are equal for $u=2$.

7. What is the n th term of the multiples of 6 sequence?

8. Write an expression for: j notebooks each costing ₹15 and k pens each costing ₹2.

9. Expand using distributive property: $7(x+3)$.

10. If $y=3$, find value of $10y-3$ and $10(y-3)$. Are they equal?

Section C: Long Answer Questions

1. Write four expressions for:

(a) 5 more than a number,

(b) 4 less than a number,

(c) 2 less than 13 times a number,

(d) 13 less than 2 times a number.

2. Simplify: $7\times4+9\times6$ and explain the steps.

3. Evaluate: $23-10\times2$ using proper order of operations.

4. Describe a situation for the algebraic expression $8x+3y$.

5. Construct expressions for the total money if x notes of ₹100, y notes of ₹20 and z notes of ₹5.

6. Simplify: $3(2a+5)+4a-7$.

7. Compare and check whether $10y-3$ and $10(y-3)$ are equal for $y=10$.

Section D: Picture / Condition Based Question

1. Matchstick squares (see image). The figure shows Step 1 (1 square), Step 2 (2 squares side by side), and Step 3 (3 squares side by side).

a) Based on the picture, write an expression for the number of matchsticks needed to make n squares in a single row.

b) Using your expression, compute the number of matchsticks required for $n = 10$.

	 Step 1  Step 2  Step 3 2. Recognize the pattern and write next three terms in the given sequences: (a) 3, 8, 13, 18, _ , _ , _ (b) 4, 7, 10, _ , _ , _
SCIENCE	*Prepare the MDP file on the allotted topics* *Solve the provided worksheet (will be shared soon in this group)* *Read chapter number 8 : measurement of time and motion for further studies*
SOCIAL SC.	Make a list of cropping seasons Make of list of 19 grains crops Make a list of 10 flowers name list Make a list of 10 fruits Write a detailed report on green revolution Make a diagrammatic chart of agricultural tools Write the role of government in agriculture Learn the capital of indian state and state capitals Learn the world country and their capital
SANSKRIT	1. संस्कृतवर्णमालायाः पुनरावृत्तिं कृत्वा सुलेखेन लिखत। 2. 'राम' तथा 'लता' शब्दयोः शब्दरूपाणि लिखत। 3. 'पठ्' तथा 'गम्' धात्वोः लट्-लकारे रूपाणि लिखत। 4. संस्कृते दश फलानां नामानि चित्रैः सह लिखत। 5. संस्कृते दश पशूनां नामानि लिखत। 6. 'मम परिवारः' इति विषयम् अधिकृत्य संस्कृते दश वाक्यानि लिखत। 7. पाठ्यपुस्तकात् पञ्च कठिनशब्दान् चित्वा तेषाम् अर्थान् लिखत। 8. पञ्च संस्कृतसुभाषितानि लिखत तथा तेषाम् हिन्दी-अर्थान् अपि लिखत। 9. दैनिकजीवनस्य पञ्च वाक्यानि संस्कृते लिखत। 10. 'वृक्षाणां महत्त्वम्' इति विषयम् अधिकृत्य संस्कृते दश वाक्यानि लिखत।

	11. संस्कृते एकं सुन्दरं चित्रं निर्माय तस्य विषये पञ्च वाक्यानि लिखत। 12. पाठ्यपुस्तकस्य पठितपाठानां पुनरावृत्तिं कुरुत। निर्देशाः सर्वं कार्यं संस्कृत-उत्तरपुस्तिकायां स्वच्छतया लिखत। चित्राणि वर्णैः अलङ्कृत्य प्रस्तुतं कुरुत। प्रतिदिनं संस्कृतपठनस्य अभ्यासं कुरुत। अवकाशानन्तरं गृहकार्यं विद्यालये प्रस्तुतं कुरुत।
COMPUTER	2. Activity: Pick one real-world problem (for example: waste management, traffic control, or water saving). Draw a simple system map showing: • Main problem in the centre • Causes and effects around it • How AI could help make it more sustainable Submission • All answers in your notebook. • Activities on chart paper or as a PowerPoint (4–5 slides).

Autumn BREAK HOLIDAY HOMEWORK- (2026-27)

CLASS VIII

HINDI	1. निम्नलिखित में से किसी दो विषयों पर 150 शब्दों में अनुच्छेद लिखिए: स्वच्छ भारत, स्वस्थ भारत मोबाइल फोन: लाभ और हानि पर्यावरण संरक्षण का महत्व 2. संवाद लेखन: निम्नलिखित में से किसी एक विषय पर संवाद लिखिए: दो मित्रों के बीच परीक्षा की तैयारी पर संवाद। शिक्षक और विद्यार्थी के बीच अनुशासन पर संवाद। 3. रचनात्मक कार्य: किसी एक हिंदी कवि या लेखक का चित्र चिपकाकर उनका संक्षिप्त जीवन-परिचय एवं साहित्यिक योगदान लिखिए।
ENGLISH	PM SHRI KENDRIYA VIDYALAYA, AGCR COLONY DELHI – 92 AUTUMN BREAK HOLIDAY HOMEWORK Session: 2026–27 Class: VIII Subject: English General Instructions 1. Complete all written work neatly in your English notebook. 2. Do all creative activities on A4-size sheets. 3. Use your own words and focus on correct grammar, spelling and punctuation. 4. Read English for at least 20 minutes daily. A. Reading Skills 1. Read any one English storybook and write: - Title and name of the author - Main characters - Summary in 150 words - Theme and moral of the story 2. Read five short newspaper articles during the holidays. Select any two and write a summary of 80–100 words each. 3. Maintain a vocabulary diary of 20 new words, including their meanings, synonyms and sentences. B. Writing Skills 4. Write a paragraph of 150–180 words on any one topic: - The Importance of Discipline in Student Life - Technology: A Boon or a Bane - My Vision for a Cleaner India - The Importance of Mental Well-being 5. Write a diary entry about a memorable experience during your autumn break. 6. Write a letter to your friend describing how you celebrated a festival and spent your holidays. 7. Write an article in 150–180 words on “The Importance of Reading Books in the Digital Age.” C. Grammar Practice 8. Change the following sentences into reported speech:

	1. Riya said, "I am preparing for my examination." 2. Rahul said to me, "Do you like reading books?" 3. The teacher said, "The Earth revolves around the Sun." 4. Mother said to me, "Complete your homework." 5. Aman said, "I visited Delhi yesterday." 9. Fill in the blanks with suitable modals: 1. We _____ respect our elders. 2. _____ I come into the classroom? 3. You _____ wear a helmet while riding a bicycle. 4. She _____ speak three languages. 5. We _____ save water to protect the environment. Creative Writing:- 10. Story Writing: Write a story in 150–200 words beginning with: "As I opened the old wooden box, I discovered something that changed my day completely..."
MATHS	<u>SECTION A(1 mark × 15 =15 marks)</u> (1)The improper fraction $\frac{35}{8}$ in the form of a mixed fraction is. (a) $4\frac{3}{4}$ (b) $4\frac{3}{8}$ (c) $3\frac{7}{4}$ (d) $4\frac{7}{8}$ (2) Rational number $\frac{21}{28}$ in standard form is, (a) $\frac{21}{28}$ (b) $\frac{3}{8}$ (c) $\frac{3}{4}$ (d) $\frac{2}{3}$ (3)A rational number is a number that can be put in the form $\frac{p}{q}$, where p and q are: (a) natural numbers and $q \neq 0$ (b) whole numbers and $q \neq 0$ (c) non-negative integers and $q \neq 0$ (d) integers and $q \neq 0$ (4)Perimeter of a semi circle is (a) $12\pi r^2$ (b) $\pi r + d$ (c) πr (d) $3\pi r^2$ (5)The area of a square plot is 1600 m². The side of the plot is (a) 40 m (b) 80 m (c) 120 m (d) 160 m (6)The region occupied by a closed figure is called its : (a)Volume (b) Perimeter (c) Area (d) None of these (7)What are the coefficients of x in the expression $8 - x + y$? (a)1 (b) -1 (c) 8 (d) none of these (8)The value of the expression $a^2 + b^2$ for a=1 and b=1 (a)1 (b) 0 (c) -1 (d) 2 (9)The value of $(-1)^{55}$ is (a) -1 (b) 1 (c) 0 (d) none of these (10)The exponential form of 216 is,

(a) 6^3

(b) 3^6

(c) 5^3

(d) 2^3

(11) The value of 5^3 is

(a) 15

(b) 125

(c) 5

(d) 3

(12) Which of the followings has both horizontal as well as vertical line of symmetry

(a) S

(b) A

(c) U

(d) H

(13) How many lines of symmetries are there in a square?

(a) 1

(b) 2

(c) 3

(d) 4

(14) In the picture given below, the sum of dots facing up on both dice is 6. What would be the sum of dots facing down?



(a) 7

(b) 8

(c) 9

(d) 10

(15) The number of faces in the given solid are ...



(a) 10

(b) 8

(c) 9

(d) 11

SECTION B (2 marks $\times$ 5 = 10 marks)

(16) The length and breadth of a rectangle piece of land are 50 m and 30 m respectively. Find its area.

OR

Find the area of square park whose side is 32 m.

(17) Find the value of expression $p^2 - 2p - 100$ for $x = -10$ **OR**Find the value of expression $x^3 - 3(x - 10)$ for $x = 10$

(18) Express the following in exponential form:

(a) $5 \times 5 \times 7 \times 7 \times 7$ (b) $a \times a \times a \times c \times c \times c \times c \times d$

(19) State the number of lines of symmetry for the following figures

(i) An equilateral triangle

(ii) A isosceles triangle

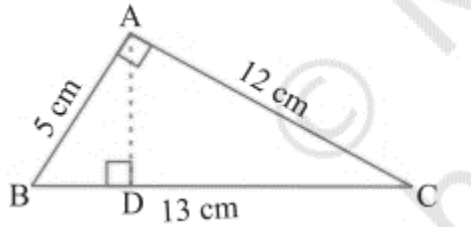
(20) What cross-section do you get when you give a

(i) Vertical cut to a round apple

(ii) Horizontal cut to a die

SECTION C (3 marks $\times$ 4 = 12 marks)

(21) ABC is right angled at A. AD is perpendicular to BC. If AB = 5 cm, BC = 13 cm and AC = 12 cm, Find the area of ΔABC .



(22) Simplify the expression $2(a^2 + ab) + 3 - ab$ and Find its value $a = 5$ and $b = -3$

(23) Draw any three English alphabets having both horizontal and vertical line of symmetry.

OR

State the number of lines of symmetry for the following figures

- (i) A rectangle
- (ii) A circle
- (iii) A regular hexagon

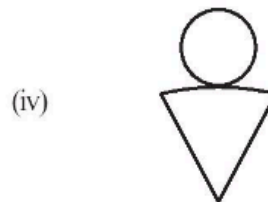
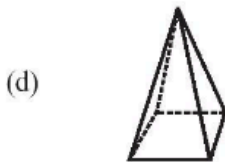
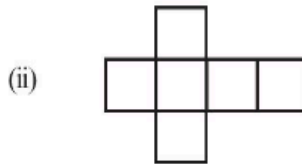
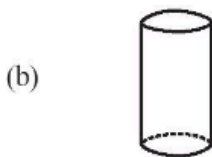
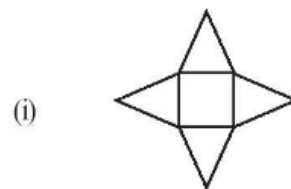
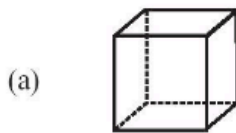
(24)(i) What cross-sections do you get when you give a vertical cut to solid cylinder ?

(ii) What cross-sections do you get when you give a horizontal cut to cricket ball?

(iii) What cross-sections do you get when you give a horizontal cut to the brick?

OR

Match the nets with appropriate solids



SECTION D (5 marks $\times$ 3 = 15 marks)

(25) (i) Find three rational numbers between $\frac{1}{4}$ and $\frac{1}{2}$

(ii) Find the value of $\frac{-3}{8} - \frac{7}{11}$

OR

(i) What number should be added to $\frac{7}{12}$ to get $\frac{4}{15}$?

(ii) Find the Product of $\frac{-3}{8}$ to the reciprocal of $\frac{15}{8}$

(26) Find the value of the following expressions for $a = 3$, $b = 2$.

(i) $a^2 + b^2$

(ii) $a^2 - b^2 + 2ab$

OR

Simplify the expression and find its value when $a = 5$ and $b = -3$.

$$2(a^2 + ab + b) + 3 - ab + 2b$$

(27) Simplify: (a) $12^4 \times 9^3 \times 4$

$$6^3 \times 8^2 \times 27$$

(b) $25 \times 5^2 \times t^8$

$$10^3 \times t^4$$

SECTION E (4 marks $\times$ 2 = 08 marks)

(28) Class VII students were asked to compare numbers. The numbers were $-\frac{14}{9}$ and -1.05 . How did the student compare as there are two methods to compare. Which one did he find easier?

Q. 1. Convert -1.05 into fraction

(a) $-21/2$

(b) $-21/20$

(c) $-21/200$

(d) $-21/2000$

Q. 2. Which is greater $-14/9$ or $-21/20$?

(a) $-14/9$

(b) $-21/20$

(c) Both are equal

(d) None of these

Q. 3. Out of $-14/9$, $-21/20$, $-7/8$ and $-21/25$ which is a nonterminating decimal ?

(a) $-21/20$

(b) $-21/25$

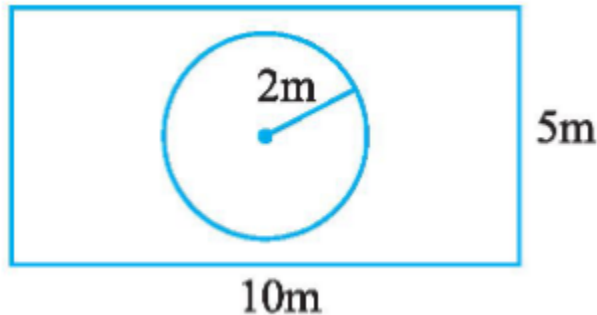
(c) $-14/9$

(d) $-7/8$

Q. 4. Simplify: $2 + \frac{1}{3} - \frac{1}{5}$

(29) The figure given below represents a rectangular lawn with a circular flower bed in the middle. Find:

- (i) the area of the whole land
- (ii) the area of the flower bed. Take $\pi = 3.14$
- (iii) the area of the lawn excluding the area of the flower bed
- (iv) the circumference of the flower bed. Take $\pi = 3.14$



Day 1: A Square and a Cube

- 1. Find the cube root of 3375.
- 2. Which of these are perfect cubes: 27, 64, 100, 125?
- 3. Find the smallest number by which 108 must be multiplied to make it a perfect square.
- 4. Find the square root of 2025 using prime factorisation.

Day 2: Power Play (Exponents)

- 1. Write 6,400,000 in standard (scientific) form.
- 2. Simplify: $75 \div 72$.
- 3. Express 0.00045 in standard form.

Day 3: A Story of Numbers

- 1. Write 6,05,00,300 in words.
- 2. Insert commas in the International system: 90876543.
- 3. Find the sum: $1 + 2 + 3 + \dots + 20$.
- 4. Estimate $4,89,321 + 3,12,678$ to the nearest thousand.

Day 4: Quadrilaterals

- 1. The angles of a quadrilateral are in the ratio 1 : 2 : 3 : 4. Find each angle.
- 2. Define a trapezium and a kite.
- 3. In a rhombus, each side is 6 cm. Find its perimeter.
- 4. Two adjacent angles of a parallelogram are equal. What is the measure of each?

Day 5: Number Play

- 1. Test whether 3,456 is divisible by 11.
- 2. Find the greatest number that divides 245 and 1029, leaving a remainder of 5 in each case.
- 3. Are 14 and 15 co-prime?
- 4. Find the smallest number divisible by 6, 8 and 12.

Day 6: We Distribute, Yet Things Multiply

1. Simplify: $68 \times 4 + 68 \times 6$.
2. Use the distributive property: 103×97 .
3. Find $12 \times 101 - 12$.
4. Simplify: $84 \times 5 + 84 \times 5$ using a property.

Day 7: Proportional Reasoning-1 (Part 1)

1. Find x : $3 : 5 :: x : 20$.
2. On a map, 1 cm represents 10 km. Two towns are 4.5 cm apart on the map. Find the actual distance.
3. Divide 90 in the ratio $2 : 3 : 4$.
4. The ratio of boys to girls in a class is $4 : 5$. If there are 20 boys, how many girls are there?

Day 8: Proportional Reasoning-1 (Part 2)

1. Are 15, 45, 20 and 60 in proportion?
2. A recipe uses 2 cups of flour for 3 cups of milk. How much flour is needed for 9 cups of milk?
3. Find the value of x : $x : 8 :: 15 : 24$.
4. If 15 books cost Rs 600, find the cost of 25 books (unitary method).

Day 9: Mixed Revision (Part 1)

1. Simplify: 56×99 using the distributive property.
2. Divide Rs 1050 in the ratio $4 : 3$.
3. Find the cube root of 216.
4. Express 0.0007 in standard form.

Day 10: Mixed Revision (Part 2)

1. Is 3,456 a perfect square? Check by prime factorisation.
2. Simplify: $5^3 \times 55$.
3. The angles of a quadrilateral are 100, 80, 100 and x degrees. Find x .
4. Find the LCM of 12, 18 and 24.
5. If 6 kg of apples cost Rs 480, find the cost of 9 kg.
6. Find the square of 65 using a pattern.
7. Simplify: $25 \times 4 + 25 \times 6$.
8. Two numbers are in the ratio $7 : 9$ and their sum is 96. Find the numbers.

Page No. _____
Date : _____

Autumn Break Holiday H.W.

Class : 8,
Sub : Science.

1. Do the question answers of chapter 8 in your science copies.
2. Do the worksheet (Case study based. Questions Assertion Reason) provided to you in science copy.
3. For subject enrichment write the following activities in your copy
 - (a) Read labels on items like detergents or snacks and try to list the mixture and compound they contain
 - (b) Search and write about the discoveries of element (any one) compound (penicillin) and mixtures (brass & bronze)

1. Passport to the World

Choose any 5 countries from 5 different continents. Create a mini travel passport with:

Country, capital and continent

	National flag One famous landform One traditional food One interesting geographical fact - create a 3D world map using waste materials, coloured paper, pulses, seeds or old newspapers. Label all seven continents and five oceans. - On a Physical world map, locate, mark, and label the following major geographical features and write a short description/important facts about it. ●Himalayas●Sahara Desert●Amazon River●Nile River●Andes Mountains●Alps●Great Barrier Reef●Gobi Desert●Rocky Mountains●Mediterranean Sea - Freedom Struggle Timeline: Create a creative timeline or flowchart highlighting the major events of India's freedom struggle, from the Revolt of 1857 to Independence in 1947. Write one line explaining the importance of each event. (a) Revolt of 1857 (b) Formation of the Indian (c) National Congress - 1885 (d) Partition of Bengal - 1905 (e) Formation of the Muslim League - 1906 (f) Jallianwala Bagh Massacre - 1919 (g) Non-Cooperation Movement - 1920 (h) Dandi March and Civil Disobedience Movement - 1930 (i) Quit India Movement - 1942. (j) Independence of India - 15 August 1947 - Make profile cards for any four freedom fighters. Include their picture, contribution, movement associated with them and one inspiring quote or fact. - Create a poster on any one movement, such as Swadeshi, Non-Cooperation, Civil Disobedience or Quit India. Include a slogan, a drawing and three key facts about the movement. - Draw comic strips showing: Causes > Events > Consequences of any event related to Indian freedom struggle.
SANSKRIT	- संस्कृतवर्णमालायाः पुनरावृत्तिं कृत्वा सुलेखेन लिखत। 'राम' तथा 'लता' शब्दयोः शब्दरूपाणि लिखत। 'पठ्' तथा 'गम्' धात्वोः लट्-लकारे रूपाणि लिखत। - संस्कृते दश फलानां नामानि चित्रैः सह लिखत। - संस्कृते दश पशूनां नामानि लिखत। 'मम परिवारः' इति विषयम् अधिकृत्य संस्कृते दश वाक्यानि लिखत। - पाठ्यपुस्तकात् पञ्च कठिनशब्दान् चित्वा तेषाम् अर्थान् लिखत। - पञ्च संस्कृतसुभाषितानि लिखत तथा तेषाम् हिन्दी-अर्थान् अपि लिखत। - दैनिकजीवनस्य पञ्च वाक्यानि संस्कृते लिखत। 'वृक्षाणां महत्त्वम्' इति विषयम् अधिकृत्य संस्कृते दश वाक्यानि लिखत। - संस्कृते एकं सुन्दरं चित्रं निर्माय तस्य विषये पञ्च वाक्यानि लिखत। - पाठ्यपुस्तकस्य पठितपाठानां पुनरावृत्तिं कुरुत। निर्देशाः सर्वं कार्यं स्वच्छतया सुलेखेन च लिखत। चित्राणि वर्णैः अलङ्कृत्य प्रस्तुतं कुरुत। प्रतिदिनं संस्कृतपठनस्य लेखनस्य च अभ्यासं कुरुत।

	अवकाशानन्तरं गृहकार्यं विद्यालये प्रस्तुतं कुरुत।
COMPUTER	Activity 1. Pick one AI example you know (like voice assistant Alexa, Google Maps, YouTube recommendations). 2. Write in a small table: • Which AI domain it belongs to (Data, Language/NLP, Vision/Robotics). • How this example would go through the stages of AI Project Cycle (Problem, Data, Model, etc.). 3. Make a 5–6 slide PowerPoint OR one page chart paper showing: • The chosen AI example • Which domain it belongs to • Stages of the AI Project Cycle in your example • One ethical point about it (e.g., “Should it keep my data private?”). Submission • Part A – in notebook • Part B – slides or chart paper

Autumn BREAK HOLIDAY HOMEWORK- (2026-27)**CLASS IX**

HINDI	प्रश्न 1. निम्नलिखित विषयों पर 120 शब्दों का अनुच्छेद लिखिए। 1. एक भारत श्रेष्ठ भारत 2. नई शिक्षा नीति 2020 3. स्वच्छता में सहभाग 4. कृत्रिम बुद्धिमत्ता शाप या वरदान प्रश्न 2. "गीता पुस्तक पढ़ती है।" इस वाक्य को अर्थ के आधार पर वाक्य के आठों (8) भेदों में रूपांतरित कीजिए। प्रश्न 3. अलंकार के सभी भेदों के दो – दो उदाहरण लिखकर कंठस्थ कीजिए। प्रश्न 4 पत्र लेखन (क) अपने छोटे भाई को छात्रावास में रहते हुए मोबाइल के सदुपयोग के लिए आग्रह कीजिए। (ख) अपने क्षेत्र में पार्क विकसित करने के लिए नगर निगम अधिकारी को पत्र लिखिए। 5. 10 उपसर्ग एवं 10 प्रत्यय दो दो उदाहरण सहित लिखें।
ENGLISH	PM SHRI KENDRIYA VIDYALAYA, AGCR COLONY DELHI – 92 AUTUMN BREAK HOLIDAY HOMEWORK Session: 2026–27 Class: IX Subject: English Language and Literature General Instructions 1. Complete all written work neatly in your English notebook. 2. Attempt all questions in your own words. 3. Practise correct grammar, spelling and punctuation. 4. Read an English newspaper or book for at least 20 minutes daily. 5. Submit the completed work on the first working day after the autumn break. 2. Vocabulary Enrichment Prepare a vocabulary notebook containing 20 new words. Write the meaning, one synonym, one antonym and a sentence for each word. 3. Descriptive Paragraph Write a descriptive paragraph in 100–120 words on any one topic: a. A Person Who Inspires Me b. The Importance of Discipline in Student Life c. A Visit to a Historical Place d. The Impact of Technology on Students 4. Diary Entry Write a diary entry in 100–120 words on any one of the following: a. You helped an elderly person and felt happy about it. b. You participated in a school activity and had an unforgettable experience. c. You spent a memorable day with your family during the autumn break. 6. Reported Speech

Change the following sentences into reported speech:

1. Riya said, "I am preparing for my examination."
2. Mohan said to me, "Where do you live?"
3. The teacher said to the students, "Complete your assignments."
4. Rahul said, "I have finished my homework."
5. Mother said to me, "Do not waste your time."
6. She said, "What a beautiful painting it is!"
7. The teacher said, "The Earth revolves around the Sun."
8. Aman said to me, "Will you help me?"
9. He said, "I visited Jaipur yesterday."
10. The captain said, "Let us work together."

7. Tenses

Fill in the blanks with the correct form of the verbs given in brackets.

1. She _____ to school every day. (go)
2. They _____ cricket when it started raining. (play)
3. I _____ my homework before my friend arrived. (finish)
4. The train _____ before we reached the station. (leave)
5. If he works hard, he _____ the examination. (pass)
6. Look! The children _____ in the garden. (run)
7. We _____ Delhi last year. (visit)
8. She _____ for two hours. (study)

8. Modals

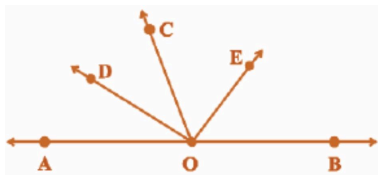
Fill in the blanks with suitable modals.

1. We _____ respect our elders.
2. _____ I borrow your pen?
3. You _____ obey traffic rules.
4. Students _____ work hard to achieve their goals.
5. We _____ save water for future generations.

MATHS

Note: All the work will be done in Holidays Homework Notebook.

- 1) If two lines intersect, prove that the vertically opposite angles are equal.
- 2) Bisectors of interior $\angle B$ and exterior $\angle ACD$ of a ΔABC intersect at the point T. Prove that $\angle BTC = \frac{1}{2} \angle BAC$.
- 3) A transversal intersects two parallel lines. Prove that the bisectors of any pair of corresponding angles so formed are parallel.
- 4) In the figure, OD is the bisector of $\angle AOC$, OE is the bisector of $\angle BOC$ and $OD \perp OE$. Show that the points A, O and B are collinear.



5. The angles of a triangle are in the ratio 5 : 3: 7. The triangle is
An acute-angled triangle

An obtuse-angled triangle

A right triangle

An isosceles triangle

6. Can a triangle have all angles less than 60° ? Give a reason for your answer.

7. Can a triangle have two obtuse angles? Give the reason for your answer.

8. How many triangles can be drawn having its angles as 45° , 64° and 72° ? Give the reason for your answer.

9. How many triangles can be drawn having its angles as 53° , 64° and 63° ? Give the reason for your answer.

10. Complete five math lab activities of Term-1 in Maths Lab notebook.

Day 1: Orienting Yourself: The Use of Coordinates

1. Plot the points (2, 3), (-2, 4), (-3, -2) and (4, -1) on a graph and name the quadrant of each.
2. Write the coordinates of one point on the x-axis and one point on the y-axis.
3. Find the distance between the points (2, 3) and (2, 8).
4. Find the distance between the origin and the point (3, 4).

Day 2: Introduction to Linear Polynomials

1. Find the n th term of the pattern 3, 7, 11, 15, ...6. Complete the table for $y = 2x + 1$ for $x = 0, 1, 2$ and 3, and plot the graph.
2. Write the slope and the y-intercept of the line $y = 3x - 2$.
3. Two lines have slopes 2 and 2. Are they parallel?

Day 3: The World of Numbers

1. Express 0.36 as a fraction in lowest terms.
2. State whether the square root of 16 is rational or irrational.
3. Describe how you would represent the square root of 2 on the number line.
4. State whether the decimal expansion of $7/8$ is terminating or non-terminating.

Day 4: Exploring Algebraic Identities

1. Expand $(x + 2)(x - 2)$.
2. Evaluate 103×97 using an identity.
3. Expand $(a + b)^3$.
4. Factorise: $x^2 + 6x + 9$.

Day 5: I'm Up and Down, and Round and Round (Circles)

1. In a cyclic quadrilateral, one angle is 70 degrees. Find its opposite angle.
2. Two chords of a circle are each at a distance of 4 cm from the centre. Are they equal in length?
3. The diameter of a circle is 14 cm. Find its radius and the length of the longest chord.
4. An arc subtends an angle of 100 degrees at the centre. Find the angle it subtends at a point on the remaining part of the circle.

Day 6: Measuring Space: Perimeter and Area

1. Find the circumference of a circle of radius 7 cm.
2. Find the area of a circle of radius 14 cm.
3. Find the area of a sector of angle 60 degrees in a circle of radius 21 cm.
4. The perimeter of a square is 36 cm. Find its area.

	Day 7: The Mathematics of Maybe (Probability) 1. A bag has 3 red and 5 blue balls. Find the probability of drawing a red ball. 2. Classify each as certain, impossible or likely: (a) the sun rises in the east, (b) getting 7 on a die. 3. Find the probability of drawing an ace from a well-shuffled deck of 52 cards. 4. A die is thrown 100 times and 4 appears 20 times. Find the experimental probability of getting 4. Day 8: Predicting What Comes Next (Arithmetic Progressions) 1. Find the sum of the first 20 natural numbers. 2. Find the nth term of the sequence 5, 9, 13, 17, ... 3. Is 100 a term of the AP 4, 8, 12, ...? Give a reason. 4. Find the sum of the first 15 terms of the AP 7, 11, 15, ... Day 9: Sequences and Progressions (Geometric Progressions) 1. Find the sum of the first 5 terms of the GP 1, 2, 4, ... 2. Find the sum: $1 + 2 + 3 + \dots + 50$. 3. Write the next two terms of the GP 80, 40, 20, ... 4. A pattern of dots grows as 1, 4, 9, 16, ... Find the 10th term. Day 10: Mixed Revision 1. Find the distance between the points (1, 2) and (4, 6). 2. Find the degree of the polynomial $7x^4 - x + 2$. 3. State whether the square root of 5 is rational or irrational. 4. Evaluate 98^2 using an identity. 5. In a circle, an angle subtended at the centre is 120 degrees. Find the angle at the circumference. 6. Find the area of a triangle with sides 5 cm, 12 cm and 13 cm. 7. Find the probability of getting a prime number when a fair die is rolled once. 8. Find the 12th term of the AP 5, 9, 13, ..
SCIENCE	• Prepare the portfolio as per the provided format. • complete all the balance work in all three notebooks of science. • Revise all the taught topics of journey inside the atom and read the untaught topics also prepare the notes of this chapter by yourself only. • Prepare the project (subject enrichment activity) on the following topics according to the mentioned roll numbers. 1. *Roll number 1-10* Self made Working model of musical instruments (chapter 10) 2. *Roll number 11-20* A4 size flash cards on writing chemical formulae (chapter 9: Laminated or covered with cellofill sheet) 3. *Roll number 21-30* Chart on sounds waves (page number 202: Laminated or covered with cellofill sheet) 4. *Roll number 31-40* Life cycle of a butterfly (page number 218 *chart or flash cards not allowed*) 5. *Roll number 41- last* Pregnancy and child birth (page number 222: art integrated project)
SOCIAL SC.	1. Draw a four- or five-panel comic strip explaining how waves transform a crack into a sea cave, sea arch, sea stack and finally a stump. Label the role of hydraulic action and abrasion. 2. Prepare an illustrated chart explaining: a) High tide and low tide. b) The role of the Moon and Sun c) tides and neap tides. d) Two ways tides help people, such as fishing, navigation or tidal energy. Add a simple diagram showing the positions of the Earth, Moon and Sun. 3. On an outline world map, mark major warm and cold ocean currents using red and blue arrows. Label at least four currents and explain how ocean currents influence coastal climate, marine life and fishing.

	4. Complete the following table by writing the objective of each e-governance initiative. Add two initiatives launched by the Delhi Government. <table> <tr> <th>Initiative</th><th>Objective</th></tr> <tr><td>UMANG</td><td></td></tr> <tr><td>Aadhaar</td><td></td></tr> <tr><td>GeM (Government e-Marketplace)</td><td></td></tr> <tr><td>DigiLocker</td><td></td></tr> <tr><td>CPGRAMS</td><td></td></tr> <tr><td>APAAR ID</td><td></td></tr> <tr><td>Delhi Government Initiative 1</td><td></td></tr> <tr><td>Delhi Government Initiative 2</td><td></td></tr> </table> 5. Choose any one public policy [for example, Right to Education(RTE), Swachh Bharat Mission, PM POSHAN, Ayushman Bharat,Digital India, or Jal Jeevan Missio] and prepare a chart showing the following aspects: a) The problem it addresses b) The major stakeholders involved c) How different actors coordinate d) The role of citizens in its success. 6. Make notes of chapter States and Societies. Also complete it's textbook questions in your notebooks.	Initiative	Objective	UMANG		Aadhaar		GeM (Government e-Marketplace)		DigiLocker		CPGRAMS		APAAR ID		Delhi Government Initiative 1		Delhi Government Initiative 2	
Initiative	Objective																		
UMANG																			
Aadhaar																			
GeM (Government e-Marketplace)																			
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Delhi Government Initiative 1																			
Delhi Government Initiative 2																			
AI	HOLIDAY HOMEWORK Class: IX Subject: Artificial Intelligence / Employability Skills Part A: Green Skills Complete all Green Skills questions in your subject notebook. Define Green Skills. Explain sustainable development with two examples. Write five ways to protect the environment. Explain the 3Rs: Reduce, Reuse and Recycle. Differentiate between renewable and non-renewable resources. Write five ways to save water and electricity. Write a paragraph on "My Role in Making India Green and Clean" (100–150 words). Prepare a colourful poster on "Go Green, Save Earth". Part B: Python Programming Complete all Python programs in a separate Python Practical File. Write each program with the following: Aim Python code Output Result Programs to be completed: Print your name, class and school name. Input two numbers and perform arithmetic operations. Calculate the area of a rectangle. Calculate the simple interest.																		

	Check whether a number is even or odd. Find the greater of two numbers. Check whether a number is positive, negative or zero. Calculate the total and percentage of marks in five subjects. Print the multiplication table of a given number. Print numbers from 1 to 10 using a for loop. Print all even numbers from 1 to 50. Calculate the sum of the first 10 natural numbers. Find the factorial of a number using a loop. Create a list of five numbers and display its elements. Use a while loop to print numbers from 1 to 10. Submission Instructions Complete Green Skills work in your subject notebook. Complete Python programs in a separate practical file. Write the code neatly and include the output of every program. Submit the completed work on the first working day after the holidays.
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Best wishes for your holidays!

Autumn BREAK HOLIDAY HOMEWORK- (2026-27)

CLASS X

HINDI	सरल वाक्य को मिश्र में और संयुक्त वाक्य में और मिश्र को सरल वाक्य में और संयुक्त को मिश्र वाक्य में बदलिए।(सभी के 5-5 बदलने हैं कुल 20 वाक्य बनाने हैं) 2. अलंकार परिचय (उपमा, रूपक, उत्प्रेक्षा,मानवीकरण, अतिशयोक्ति) अलंकार के पाँच-पाँच उदाहरण लिखिए। 3.कर्तृवाच्य, कर्मवाच्य और भाववाच्य इन तीनों के 5-5 उदाहरण लिखिए । 4.निम्न विषय पर अनुच्छेद लिखिए :- स्वच्छ भारत अभियान संकेत बिंदु :- अभियान का उद्देश्य सफाई की स्थिति पहले और अब विद्यार्थियों की भूमिका “जहाँ स्वच्छता, वहाँ स्वास्थ्य” 5.(i)आपके शहर में सड़को को चौड़ा करने के बहाने आवश्यकता से अधिक पेड़ काटे जा रहे हैं।इसकी जानकारी देते हुए पर्यावरण मंत्री को लगभग 120 शब्दों में पत्र लिखिए। (ii) आपका मित्र आई.टी.आई.की परीक्षा में चयनित हो गया है।उसे बधाई देते हुए पत्र लिखिए । 6.देश के प्रधानमंत्री की ओर से महात्मा गांधी की पुण्यतिथि पर देशवासियों को सत्य,अहिंसा और आचरण की शुद्धता के पालन का संदेश लगभग 40 शब्दों में दीजिए । 7.नगर मे आयोजित होने वाली भारत की सांस्कृतिक एकता प्रदर्शनी को देखने के लिए लोगों को आमंत्रित करते हुए एक विज्ञापन तैयार कीजिए । 8.आप राजन/रजनी हैं।अपने बैंक खाते में नेट बैंकिंग की सुविधा प्राप्त करने के लिए संबंधित शाखा प्रबंधक को लगभग 80 शब्दों में एक ई-मेल लिखिए। 9.आप नेहा वर्मा/सुशील वर्मा हैं ।आपने दिल्ली से बी.बी.ए. किया है।एक एम.एन.सी. में कस्टमर केयर एक्ज़क्यूटिव के पद पर आवेदन हेतु एक स्ववृत्त तैयार कीजिए । 10.एक पोर्टफोलियो तैयार कीजिए ।
ENGLISH	Subject: English Language and Literature Class: X Session: 2026–27 Name: _____ Roll No.: _____ Section A: Reading Skills 1. Read any one unseen passage from an English newspaper or magazine and write: Five new words with meanings. A summary in 80–100 words. Five questions and answers based on the passage. 2. Read an article on the importance of education, discipline, or environmental protection and write its central idea in about 100 words. Section B: Writing Skills 1. Formal Letter: Write a letter to the Editor of a newspaper expressing concern about increasing pollution in your city. 2. Analytical Paragraph: Study the given information and write an analytical paragraph in 100–120 words. Mode of Transport Number of Students School Bus 40 Bicycle 15 Private Car 20 Walking 25 3. Story Writing: Write a story in 150–200 words beginning with the line: “It was a rainy evening, and I was returning home when I noticed a small bag lying on the road.” Section C: Grammar Complete the following activities in your English notebook. 1. Prepare 10 examples each of:

	Tenses Modals Subject–verb agreement Reported speech Determiners 2. Change the following sentences into reported speech. a. Riya said, “I am preparing for my examination.” b. The teacher said to the students, “Complete your homework.” c. Mohan said, “I have finished my project.” d. Mother said to me, “Do not waste your time.” e. He said, “Will you help me?” 3. Edit the following sentences. a. She go to school every day. b. He is senior than me. c. Neither of the boys have completed the work. d. I have seen him yesterday. e. The news are very shocking. Section D: Literature Based on the prescribed NCERT English textbooks First Flight and Footprints Without Feet: Read all the chapters and poems taught in class. Write a summary of any three prose chapters and two poems. prepare portfolio.
MATHS	Prepare chapter 3, 4, 5, 7 ,8, 9, 10, 11 ,12 ,14, BPT theorem and Mean from exercise 13.1 Revise CBSE sample paper and do maths notebook. Complete maths activity file and portfolio
SCIENCE	• Prepare the portfolio as per the provided format (will be shared in the group) • Solve the pt2 question paper if not solved yet. • complete all the written work of science including the notes of magnetic effect of electric current (will be shared in group) • Revise the taught topics of Magnetic effect of electric current and Read the untaught topics. • prepare yourselves for pre board 1 examinations.
SOCIAL SC.	भाग: – 1 : व्याकरणम् ‘राम’, ‘लता’ तथा ‘मुनि’ शब्दानां शब्दरूपाणि लिखत। ‘पठ्’, ‘गम्’ तथा ‘भू’ धातूनां लट्, लङ् एवं लृट्-लकारेषु रूपाणि लिखत। पञ्च सन्धीनां नामानि उदाहरणैः सह लिखत।

	पञ्च समस्तपदानि लिखित्वा तेषां समासविग्रहं कुरुत। दश उपसर्गान् उदाहरणैः सह लिखत। दश प्रत्यययुक्तपदानि लिखत। पाँच सरलवाक्यानां संस्कृतभाषायां वाच्यपरिवर्तनं कुरुत। भाग: – 2 : लेखनम् एवं रचनात्मककार्यम् ‘पर्यावरणसंरक्षणम्’ इति विषयम् अधिकृत्य संस्कृते दश वाक्यानि लिखत। ‘विद्यायाः महत्त्वम्’ इति विषयम् अधिकृत्य संस्कृते एकम् अनुच्छेदं लिखत। पञ्च संस्कृतसुभाषितानि लिखित्वा तेषाम् हिन्दी-अर्थं लिखत। विद्यालयस्य प्रधानाचार्यं प्रति अवकाशार्थम् एकं प्रार्थनापत्रं संस्कृते लिखत। दैनिकजीवनस्य दश वाक्यानि संस्कृते लिखत। संस्कृतभाषायां दश लोकोपयोगीनि सूक्तीनि लिखत। भाग: – 3 : पाठ्यपुस्तकाधारितकार्यम् पाठ्यपुस्तकस्य पठितपाठानां पुनरावृत्तिं कुरुत। प्रत्येकपाठात् पञ्च नवीनशब्दान् चित्वा तेषाम् अर्थान् लिखत। पठितपाठेषु एकस्य पाठस्य सारांशं संस्कृते लिखत। पाठ्यपुस्तकस्य आधारितः दश प्रश्नानाम् उत्तराणि संस्कृते लिखत। अपठितपाठेषु एकस्य पाठस्य सारांशं संस्कृते लिखत। पाठ्यपुस्तकस्य आधारितः दश प्रश्नानाम् उत्तराणि संस्कृते लिखत। निर्देशाः सर्वं कार्यं संस्कृत-उत्तरपुस्तिकायां स्वच्छतया लिखत। व्याकरणसम्बद्धानि कार्याणि उदाहरणैः सह पूर्णानि कुरुत। प्रतिदिनं संस्कृतपठनस्य लेखनस्य च अभ्यासं कुरुत। अवकाशानन्तरं गृहकार्यं विद्यालये प्रस्तुतं कुरुत।
AI	Run and write following programs in file ADVANCE PYTHON Practical 20: Write a program in python to display your name along with your age and school name in separate lines. Ans. The python code to print name along with your age and school name in separate lines: <pre>name=input("enter your name ") age=int(input("enter your age ")) school=input("enter your school name") print(name, "\n", age) print(school)</pre>

Practical 21: Write a program in python **to** calculate the electricity bill when the user enters the electricity units consumed.

Ans. The python code to calculate the electricity bill:

```
units=int (input ("enter the electricity units consumed "))
price =int (input("enter the price of one unit of electricity"))
rent= 500
bill= rent+ units*price
print (bill)
```

Practical 22: Write a program in python to find whether the user is eligible for job or not according to his age.

Ans: The python code to find whether the user is eligible for job or not according to his age:

```
age=int(input ("enter your age "))
if age>=18:
    print ("eligible for job")
else:
    print("Not eligible for job")
```

Practical 23: Write a program in python to print odd and even series of number

Ans: The python code to create the odd and even series:

Odd Series;

```
n=int (input ("enter the numbers you want in the series "))
a=1
for i in range (1, n+1, 1):
    print (a, end="")
    a=a+2
```

Even **Series** :

```
n=int(input ("enter the numbers you want in the series "))
a=2
for i in range (1,n+1,1):
    print(a, end=' ')
    a=a+2
```

Practical 24: Write a program in python to print Fibonacci series.

Ans: The python code to create the Fibonacci series:

```
n=int(input ("enter the numbers you want in the series "))

a=0
b=1
print (a, b, end="")
for i in range (3,n+1,1):
    c=a+b
    print (c, end="")
    a=b
    b=c
```

Practical 25: Write a program in python using jupyter to make the following pattern:

Ans: The python code to create the above pattern:

```
n=int(input ("enter the number of lines you want "))
for i in range (1,n+1,1):
```

```
for j in range (1,i+1,1):
print ("*", end=' ')
print()
```

Practical 26: Write a program in python using jupyter to make the following pattern:

```
1
1 2
1 2 3
```

Ans: The python code to create the above pattern:

```
n=int(input ("enter the number of lines you want "))
for i in range (1,n+1,1):
    for j in range (1,i+1,1):
        print (j, end=' ')
    print()
```

Practical 27: Write a program in python to find whether the number entered by the user is palindrome or not.

Ans: The python code to find whether the number entered by the user is palindrome or not.

```
n=input ("enter the numbers in non fraction form to reverse")
x=len (n)
rev=0
n=int (n)
m=n
if n>0:
for i in range (x):
r=n%10
n=n//10
rev=rev*10+r
if (m==rev):
print("answer is", rev, "and", m, "so number is
palindrome")
else:
print("answer is", rev, "and", m, "so number is not
palindrome")
else:
print("number must be positive")
```

Practical 28: Write a program in python to print the following pattern:

Ans: The python code to print the above pattern is :

```
n=int(input (enter the number of line you want to print"))
a=n
for i in range (1, n+1):
    for x in range (n, i-1, -1):
        print (a, end=" ")
    a=a-1
    print (" ")
```

Practical 29: Write a program in python to print the number of vowels, consonant, digits and spaces in the text entered by the user.

Ans: The python code to print the number of vowels, consonant, digits and spaces in the text entered by the user: matte svods ar

Practical 30: Write a program in python using jupyter to make the following pattern:

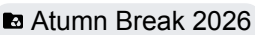
Ans: The python code to create the above pattern:

```
n=int (input (enter the number of line you want to print"))
for i in range (1, n+1):
```

	<pre>a=1 for x in range (n, i-1, -1): print (a, end=" ") a=a+1 print(" ")</pre>
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Autumn BREAK HOLIDAY HOMEWORK- (2026-27)

CLASS XI

HINDI	कक्षा 11 हिंदी: आरोह भाग-1, वितान, अभिव्यक्ति एवं माध्यम (10 दिन शरद कालीन अवकाश गृहकार्य) आरोह भाग-1 1- कलात्मक कविताओं जैसे "हम तौ एक एक करि जाना," "मेरे तो गिरधर गोपाल," आदि का भावार्थ 40 शब्दों में लिखिए। 2- "घर की याद" और "चंपा काले-काले अक्षर नहीं चिन्हती" में कवि के मनोभावों को संक्षेप में 60 शब्दों में लिखिए। 3- गज़ल पाठ और अन्य पठित कविताओं में से अपनी पसंदीदा कोई पाँच पंक्तियाँ चुनकर उसका परिचय व अर्थ बताइए। 1- गद्यांश "नमक का दारोगा" और "मियाँ नसीरुद्दीन" का सारांश अपने शब्दों में लिखिए (60 शब्दों में)। 2- "अपू के साथ ढाई साल" कहानी का पात्र परिचय व मुख्य घटना संक्षेप में लिखिए। 50 शब्दों में 3- "विदाई-संभाषण" तथा "गलता लोहा" के मुख्य विचार लिखिए। 50 शब्दों में वितान भाग-1 1- लता मंगेशकर का गायन की दुनिया में क्या महत्व है, लिखें। 50 शब्दों में 2- "राजस्थान की रजत बूँदें" पाठ को पढ़कर पानी की समस्या पर 50 शब्दों में अपने विचार लिखें। अभिव्यक्ति एवं माध्यम 1- प्राथमिक शिक्षक पद के लिए एक स्ववृत्त लिखें। 2- समझाइए कि समाचार लेख कैसे लिखा जाता है, और एक समाचार लेख लिखें (100 शब्द)। 3- पत्र लेखन अभ्यास: अपने नगर पालिका अध्यक्ष को दिवाली पर सफाई व्यवस्था के लिए पत्र लिखें। 120 शब्दों में
ENGLISH	PM SHRI KENDRIYA VIDYALAYA AGCR COLONY, DELHI Autumn Break Homework Class XI Subject - English Dear Students Do the following work in Autumn Break:- Project Project Topic : Pick a Book of your choice and submit a detailed project report on the same after having read it. The Project-Portfolio may include the following: ● Cover page, with title of project, school details/details of student. ● Statement of purpose/objectives/goals ● Certificate of completion under the guidance of the teacher. ● Action plan for the completion of assigned tasks. ● Material evidence of learning progress and academic accomplishment. ● The 300 - 500 words essay/Script/Report/Review. ● Student reflections. ● If possible, Photographs that capture the positive learning experiences of the student. ● List of resources/bibliography HAPPY DUSSEHRA!
MATHS	 Autumn Break 2026
HISTORY	1. Write Glossary, map, Time line and Exercise of History chapter -4(The Three Orders) 2. Revise From chapter 1-4 for Half Yearly Examination

GEOGRAPHY	Make a list of indian rivers and their originating place Make a list of lakes and place Make a list of river dama and state name Make a list of water fall in insuq and abroad Learn indian satws and ataw capitals Learn and locate world country and their capitals Make a list of landforms made by different agents
POL SC	HOLIDAY HOMEWORK Class XI – Political Science 1. Paste cartoon pictures and write the related questions and answers in your notebook. 2. Writes notes of chapter 7 federalism. 3. Complete all pending written work. 4. Revise all chapters thoroughly.
ECO	HOLIDAY HOMEWORK (AUTUMN BREAK) SUBJECT- ECONOMICS CLASS- XI-E, XI-F • MAKE PROJECT FILE ON THE TOPIC PRESCRIBED IN THE SYLLABUS.(already shared in the class groups) Instructions: 1. No. of pages-25-30 minimum 2. Use pictures and diagrams properly 3. Make project in ring file only 4. Cover the file properly 5. Include- acknowledgement, certificate, and index in starting pages, then start your project content 6. Use practical sheets for project file(one side blank) 7. Can use coloured sheets in between • COMPLETE ECONOMICS NOTEBOOK TILL THE SYLLABUS COMPLETED. • DO NUMERICAL QUESTIONS OF PRODUCTION FUNCTION CHAPTER in your micro-economics notebook
ACCOUNTANCY	ACCOUNTANCY Complete all practical questions of the chapters covered. Complete short questions of all chapters covered in the textbook. Solve paper- https://edustud.nic.in/edu/practicepaper_2022/11/11Accountancy_2022.pdf
B.STD.	BST 1. Complete practical questions of the chapters covered. 2. Complete short questions of all chapters covered in the textbook.

	3. Solve paper- https://docs.google.com/document/d/1V-JDinuhZ36FpwV5tgL_m2_9CrFhyawl/edit?usp=drive_sdk&oid=103943214958207714166&rtpof=true&sd=true
PHYSICS	1. Identify the pair of physical quantity having same dimensions Impulse, Planck's Constant ,energy density , Momentum, pressure, angular momentum, force ,surface tension, stress ,Force per unit area. 2. Write three limitations of dimensional analysis. Deduce the relation using it 3. How significant figures can be calculated. Write any 5 rules using one - one example each. 4. Right significant figures in 3500, 3.500, 3500kg, 3.500×10^3 5. A man goes 100 m north turns east and moves 400 m south he turns to south and moves 400 m. Calculate distance and displacement covered. 6. Define relative velocity. A boy moving downstream with 10 M per second for 100 second and come back . if stream speed is 3 m/s. calculate time he takes in backward journey. 7. A helicopter starts ascending at 2 m per second square after 20 second of its motion a stone is freely dropped from it calculate when and with what speed stone reaches out at ground speed time and velocity time graph of its motion using these graph calculate distance and displacement covered verify the data. 8. Using area method how can you calculate distance and displacement covered. 9. Using graphical method deduce the equation of motion. 10. A bus enters a bridge with $6u$ speed and leaves with $8u$ speed . Calculate its speed at middle point of bridge. 11 What do you mean by inertia of body ?.how it is related with mass of body? 12. Deduce first and third law using second law of motion. 13. State and prove impulse energy theorem. 14 State Law of Conservation of Linear Momentum. 15. A force can produce 2 m per second square and 3 M per second square acceleration into different moves .what is force it can produce if both masses are placed one over other. (I) If forces unable to produce motion of block calculate force of static friction. (II) if same force can produce an acceleration of 2 m per second square calculate between surfaces. 17(i) A 10 kg block just slides with zero acceleration along an inclined plane as shown calculate (ii) calculate minimum force required to pull it upward the plane without any acceleration. 18 Define angle of repose and angle of friction show that numerically they are equal. 19. Two bodies of masses 100 kg and 150 kg are placed at a surface coefficient of friction between them and surface are 0.5 and 0.7. if a force can move them at an acceleration of 2 m per second square calculate force f and tension t.
CHEMISTRY	XI CHEMISTRY 1. 18 g of water completely vaporizes at 100°C and 1 bar pressure and then enthalpy change in the process is 40.79 kJ per mole. What will be the enthalpy change for vaporizing two moles of water under the same conditions? What is the standard enthalpy of vaporization for water? 2. The value of standard enthalpy of formation for NH_3 is - 91.8 kJ/mole. Calculate enthalpy change for the following reaction $2\text{NH}_3(\text{g}) \rightarrow \text{N}_2(\text{g}) + 3\text{H}_2(\text{g})$. 3. The enthalpy of atomisation for the reaction

	$\text{CH}_4(\text{g}) \rightarrow \text{C}(\text{s}) + 4\text{H}_2(\text{g})$ is 1665 kJ/mol. What is the bond energy of C-H bond? 4. The enthalpies of combustion of C, H_2 and ethyne are -393.5 kJ/mol, -285.8 kJ/mol and -1309.5 kJ/mol respectively. Calculate the enthalpy of formation of ethyne. 5. The enthalpies of combustion of C, H_2 and benzene are -393.5 kJ/mol, -285.8 kJ/mol and -3264.6 kJ/mol respectively. Calculate the enthalpy of formation of benzene. 6. The enthalpies of combustion of Carbon, H_2 and propane are -393.5 kJ/mol, -285.8 kJ/mol and -2220 kJ/mol respectively. Calculate the enthalpy of formation of propane. 7. The enthalpies of combustion of Carbon, H_2 and methanol are -393.5 kJ/mol, -285.8 kJ/mol and -726 kJ/mol respectively. Calculate the enthalpy of formation of methanol. 8. 10 moles of an ideal gas expand isothermally and reversibly from a pressure of 5 atm to 1 atm at 300K. What is the largest mass that can be lifted through a height of 1 meter by this expansion? 9. Calculate the standard free energy change for the reaction, $4\text{NH}_3(\text{g}) + 5\text{O}_2(\text{g}) \rightarrow 4\text{NO}(\text{g}) + 6\text{H}_2\text{O}(\text{l})$ Given that the standard free energies of formation for $4\text{NH}_3(\text{g})$, $4\text{NO}(\text{g})$, $6\text{H}_2\text{O}(\text{l})$ are -16.8 kJ/mol, +86.7 kJ/mol -237.2 kJ/mol respectively. Predict the feasibility of the above reaction at the standard state. 10. Calculate standard free energy of reaction for conversion of oxygen to ozone $3/2\text{O}_2(\text{g}) \rightarrow \text{O}_3(\text{g})$ at 298 K, if K_p for this conversion is 2.47×10^{-29} 11. Write characteristics of equilibrium. 12. (a) State Lechatelier's principle Describe the effect of - addition of H_2. - Addition of CH_3OH on the equilibrium of the reaction $2\text{H}_2(\text{g}) + \text{CO}(\text{g}) = \text{CH}_3\text{OH}(\text{g})$ (b) One mole of H_2O and one mole of CO are taken in 10 L vessel and heated to 725K. At equilibrium 40% of water (by mass) reacts with CO according to the equation. $\text{H}_2\text{O}(\text{g}) + \text{CO}(\text{g}) \rightarrow \text{H}_2(\text{g}) + \text{CO}_2(\text{g})$ Calculate the equilibrium constant for the reaction. (a) What is meant by solubility product constant. Give relationship between solubility product and solubility of binary salt. (b) Calculate the solubility of A_2X_3 in pure water assuming that neither kind of ion reacts with water. The solubility product of A_2X_3 is 1.1×10^{-23}
BIOLOGY	1. Differentiate: C_3 and C_4 Pathway - Cyclic and non-cyclic photophosphorylation
COMPUTER SC.	General Instructions Complete all questions independently.

2. Write Python programs with proper indentation and meaningful variable names.
3. For output-based questions, write the exact output and explain the result wherever asked.
4. Draw neat, properly labelled flowcharts wherever required.
5. For programming questions, write the complete code and show the output for at least one sample input.
6. Do not use concepts or Python functions that have not been covered in class.

Section A: Conceptual Revision

15 marks

Q1. Answer the following briefly. (5 × 1 = 5)

- a. Differentiate between an algorithm and a flowchart.
- b. What is decomposition in problem-solving?
- c. What is the difference between interactive mode and script mode in Python?
- d. Explain the difference between mutable and immutable data types with one example of each.
- e. What is the difference between `is` and `==` in Python?

Q2. Identify the Python token represented by each of the following. (5 × 1 = 5)

- a. `while`
- b. `student_name`
- c. `3.14`
- d. `>=`
- e. `()`

Q3. State whether the following statements are True or False. Correct the false statements. (5 × 1 = 5)

- a. A variable must be declared with its data type before it is used in Python.
- b. A tuple can be modified after its creation.
- c. The expression `5 / 2` evaluates to an integer.
- d. An expression containing only integers may produce a floating-point result.
- e. A program can execute successfully and still contain a logical error.

Section B: Predict the Output

20 marks

Write the exact output of each program. Assume that each program is executed independently.

Q4. (2 marks)

```
a = 7
b = 2
print(a // b, a % b, a ** b)
print(3 + 4 * 2 ** 2)
```

Q5. (2 marks)

```
x = 10
x += 3
x *= 2
x -= 4
print(x)
print(x > 10 and x < 30)
```

Q6. (2 marks)

```
a = 5
b = 5
print(a == b)
print(a is b)
print(5 in [2, 5, 8])
```

Q7. (2 marks)

```
x = "Python Programming"
print(x[2:12:2])
print(x[-4:])
print(x[::-1])
```

Q8. (2 marks)

```
s = " computer science "
print(s.strip().title())
print(s.count("c"))
print(s.replace("science", "applications"))
```

Q9. (2 marks)

```
L = [10, 20, 30, 20, 40]
L.append(50)
L.insert(1, 15)
L.remove(20)
print(L)
print(L.pop())
```

Q10. (2 marks)

```
L = [4, 1, 3, 1, 2]
print(sorted(L))
print(L)
L.sort()
L.reverse()
print(L)
```

Q11. (2 marks)

```
for i in range(1, 5):  
    if i == 3:  
        continue  
    print(i, end=" ")
```

Q12. (2 marks)

```
for i in range(1, 4):  
    for j in range(1, i + 1):  
        print(j, end="")  
    print()
```

Q13. (2 marks)

```
x = [1, 2, 3]  
y = x  
y[0] = 9  
print(x)  
print(y is x)
```

Section C: Find and Correct the Errors**15 marks**

Identify the error in each program and rewrite the corrected statement or program. Also mention the type of error wherever applicable.

Q14. (3 marks)

```
if age >= 18  
    print("Eligible")
```

Q15. (3 marks)

```
n = int(input("Enter a number: "))  
print("Square =", n * n)
```

The program executes, but the intended result is to display the cube of the number. Identify the error and correct it.

Q16. (3 marks)

```
total = 0  
for i in range(1, 6):  
    total = i  
print(total)
```

The program is intended to calculate the sum of numbers from 1 to 5. Correct it.

Q17. (3 marks)

```
word = "COMPUTER"
```

```
for i in range(1, len(word)):
```

```
    print(word[i])
```

The program is intended to display every character of the string, including the first character. Correct it.

Q18. (3 marks)

```
L = [12, 5, 8, 20]
```

```
L.sort()
```

```
print(L[4])
```

Identify the run-time problem and correct the program so that it displays the largest element.

Section D: Algorithms, Flowcharts and Logic Building

15 marks

Q19. Problem-solving and decomposition (3 marks)

A school wants to calculate the average marks of a student in five subjects and determine whether the student has passed.

- Identify the inputs, processing steps and outputs.
- Write an algorithm to solve the problem.
- Assume that a student passes if the average is at least 33. Include this condition in your algorithm.

Q20. Flowchart (4 marks)

Draw a flowchart to input an integer and display whether it is positive, negative or zero.

Your flowchart must include:

- Input and output symbols.
- Correct decision symbols.
- Appropriate arrows and branching.

Q21. Conditional statements (4 marks)

Write an algorithm and draw a flowchart to input three distinct numbers and display them in ascending order.

Q22. Iterative logic (4 marks)

- Write a Python statement using range() to generate the sequence:

```
2, 4, 6, 8, 10, 12
```

- State the number of iterations performed by range(3, 20, 4).
- Differentiate between break and continue with a suitable example of each.
- Write the output of the following code:

```
i = 1
```

```
while i <= 5:
```

```
    if i == 3:
```

```
        break
```

```
    print(i, end=" ")
```

i += 1

Section E: Python Programming

25 marks

Write complete, executable Python programs for the following questions.

Q23. Conditional statements (5 marks)

Write a program to input three numbers and display the greatest number. If any two or more numbers are equal to the greatest value, the program should still display the correct greatest value.

Q24. Loops and mathematical computation (5 marks)

Write a program to input a positive integer (n) and calculate the following sum using a loop:

[
S = $1^2 + 2^2 + 3^2 + \dots + n^2$
]

Do not use a formula for the sum.

Q25. Nested loops and patterns (5 marks)

Write a program to input the number of rows and print the following pattern for (n = 5):

1
12
123
1234
12345

Modify the program to print the pattern in reverse row order:

12345
1234
123
12
1

Q26. String processing (5 marks)

Write a program to input a string and perform the following tasks without using count():

- Display the number of vowels in the string.
- Display the number of uppercase letters.
- Display the string in reverse order.
- Display whether the string is a palindrome, ignoring differences between uppercase and lowercase letters.

Q27. List processing (5 marks)

Write a program to input a list of 10 integers and perform the following tasks:

- Display the maximum and minimum elements.
- Calculate the mean of all the elements.

- c. Input another number and count its frequency in the list.
- d. Search for a number entered by the user and display its position(s), using a linear search and without using index().

Section F: Strings, Lists and Integrated Practice

10 marks

Q28. String methods (3 marks)

Consider the string:

```
s = " Learn Python Programming "
```

Write Python statements to:

- a. Remove leading and trailing spaces.
- b. Convert the cleaned string to lowercase.
- c. Split the cleaned string into a list of words.
- d. Check whether the string starts with "Learn" after removing the spaces.
- e. Replace "Python" with "Computer Science".
- f. Use partition() to separate the string at the first space.

Q29. List operations (3 marks)

Consider the list:

```
L = [12, 5, 8, 5, 20, 3]
```

Write Python statements to:

- a. Add 15 at the end of the list.
- b. Insert 10 at position 2 (using Python's zero-based indexing).
- c. Remove the first occurrence of 5.
- d. Extend the list with [25, 30].
- e. Display the list in ascending order without modifying the original list.
- f. Display the sum of all elements.

Q30. Integrated programming challenge (4 marks)

A teacher maintains the marks of students in a list:

```
marks = [78, 45, 89, 32, 45, 67, 91, 32]
```

Write a Python program to:

- a. Display the highest and lowest marks.
- b. Calculate the average marks.
- c. Count how many students scored at least 60 marks.
- d. Display each distinct mark along with its frequency, without displaying the same mark more than once.

HINDI	कक्षा 12 हिंदी आरोह भाग-2, वितान, अभिव्यक्ति एवं माध्यम शरद कालीन अवकाश गृहकार्य आरोह भाग-2 (काव्य एवं गद्य) 1: "आत्मपरिचय" के आधार पर अपना परिचय 50 शब्दों में लिखिए। 2: "पतंग" कविता का सारांश 60 शब्दों में लिखिए। 3: "कैमरे में बंद अपाहिज" पद्यांश पढ़ें, मुख्य विचार 60 शब्दों में लिखें। 4: "उषा" कविता का भावार्थ और प्रमुख विचार अपने शब्दों में लिखें। ऊपर के पाठों से नए-नए शब्द चुनकर उनके अर्थ व वाक्यों सहित नोट बनाएं। 5: "पहलवान की ढोलक" कहानी पढ़कर उसमें कुश्ती की परम्परा के महत्व पर 60 शब्द का अनुच्छेद लिखिए। 6: "शिरिष के फूल" पाठ के आधार पर पद भोग लिप्सा पर अनुच्छेद लिखो। उपर्युक्त पाठों में से पांच कठिन शब्द खोजकर अर्थ और उदाहरण सहित लिखिए। वितान (प्रक गद्य) 1: "सिल्वर वेडिंग" के मुख्य पात्रों और कथानक का 80 शब्दों में संक्षिप्त परिचय दीजिए। 2: 'जूझ' पाठ के संदेश को अपने शब्दों में लिखो। 60 शब्दों में उपर्युक्त पाठों में से पांच कठिन शब्द खोजकर अर्थ और उदाहरण सहित लिखिए। अभिव्यक्ति एवं माध्यम (लेखन कौशल) 1- किसी एक विषय पर रचनात्मक लेख लिखें (120 शब्दों में) क-बदलता ग्रामीण जीवन ख- परीक्षा के दिन ग-रेलगाड़ी की पहली यात्रा 2- कहानी और नाटक में अंतर बताइए? 3- समाचार लेखन के छः ककार कौन कौन से हैं? 4- फीचर और समाचार में अंतर स्पष्ट कीजिए।
ENGLISH	PM SHRI KENDRIYA VIDYALAYA AGCR COLONY, DELHI Autumn Break Homework Class XII English Subject - Dear Students Do the following work in Autumn Break: - 1. Read the chapters On the Face of it and Memories of Childhood and write summary & difficult word - meaning or phrases in English Notebook 2. Make project file for ALS 2025-26 session to be conducted in the month of January. *Project Topics: TOPICS WILL BE PROVIDED IN THE WHATSAPP GROUP. Write up- The Project-Portfolio may include the following: ● Cover page, with title of project, school details/details of student. ● Statement of purpose/objectives/goals ● Certificate of completion under the guidance of the teacher. ● Action plan for the completion of assigned tasks. ● Material evidence of learning progress and academic accomplishment. ● The 800-1000 words essay/Script/Report. ● Student reflections. ● If possible, Photographs that capture the positive learning experiences of the student. ● List of resources/bibliography

	3.Do the revision for Pre-Board 1, message me if you have any doubts during revision. HAPPY DUSSEHRA!
MATHS	 Autumn Break 2026
HISTORY	1.Write in CW Note book -Gossary,Maps, Time line,21-mCQs,6-Short Answer Type Questions with Answer and 3-Long Answer Type Questions with Answer from Study material of 2026-27 of KVS shared by me on group and EXERCISE of Chapter -11 and 12. 2. In a new Note book write answers of Sample Question Paper -2026-27 shared by me in class 12 E whatsapp group. 3. Solve 4 Sample Question Paper of Previous year in new Note book.
GEOGRAPHY	Learn and locate indian state and state capitals Learn and locate world country and their countries
POL SC	**HOLIDAYS HOMEWORK** **Class XII – Political Science** 1. Write notes on Chapter 7 – *Regional Aspirations*. 2. Complete all pending written work. 3. Paste cartoons pictures and write the related questions and answers in your notebook. 4. Complete your project work. 5. Revise all chapters thoroughly for the Pre-Board Examinations.
ECO	HOLIDAY HOMEWORK (AUTUMN BREAK) SUBJECT- ECONOMICS CLASS- XII-E, XII-F • MAKE PROJECT FOR THE FINAL EXAM ON THE TOPIC PRESCRIBED IN THE SYLLABUS.(already shared in the class group) Instructions: 1. No. of pages-25-30 minimum 2. Use pictures and diagrams properly 3. Make project in ring file only 4. Cover the file properly 5. Include- acknowledgement, certificate, and index in starting pages, then start your project content 6. Use practical sheets for project file(one side blank) 7. Can use coloured sheets in between • COMPLETE ECONOMICS NOTEBOOK TILL THE SYLLABUS COMPLETED.

	• SOLVE CBSE SAMPLE PAPER(2026-27) -to be solved in your macro- economics notebook only
ACCOUNTANCY	ACCOUNTANCY Class 12 Specific project 1 in accountancy Preparation of Pre-board 2 Solve paper- https://cbseacademic.nic.in/web_material/SQP/ClassXII_2024_25/Accountancy-SQP.pdf
B.STD.	BST Class 12 Project work on Marketing Management Revision of entire syllabus Solve paper- https://cbseacademic.nic.in/web_material/SQP/ClassXII_2024_25/BusinessStudies-SQP.pdf
PHYSICS	1.CBSE 2026 paper of physics
CHEMISTRY	HOLIDAY HOME WORK CLASS 12 SUBJECT –CHEMISTRY 1.Among the isomeric alkanes of molecular formula C_5H_{12}, identify the one that on photochemical chlorination yields (i) A single monochloride. (ii) Three isomeric monochlorides. (iii) Four isomeric monochlorides. 2. Explain why (i) the dipole moment of chlorobenzene is lower than that of cyclohexyl chloride? (ii) alkyl halides, though polar, are immiscible with water? (iii) Grignard reagents should be prepared under anhydrous conditions? 3.Give equations of the following reactions: (i) Oxidation of propan-1-ol with alkaline $KMnO_4$ solution. (ii) Bromine in CS_2 with phenol. (iii) Dilute HNO_3 acid with phenol (iv) Treating phenol with chloroform in presence of aqueous $NaOH$. 4. Write major products V 5. Write equations of the following reactions: (i) Friedel-Crafts reaction -alkylation of anisole (ii) Nitration of anisole. (iii) Bromination of anisole in ethanoic acid medium (iv) Friedel-Craft's acetylation of anisole. 6. Arrange the following carbonyl compounds in increasing order of their reactivity in nucleophilic addition reactions : (a) Ethanal, propanal, propanone, butanone (b) Benzaldehyde, p-tolualdehyde, p-nitrobenzaldehyde, acetophenone 7. Which acid from each of the following pairs would you expect to be a stronger acid? (i) CH_3COOH or CH_2FCOOH (ii) CH_2FCOOH or $CH_2ClCOOH$ (iii) $CH_2FCH_2CH_2COOH$ or CH_3CHFCH_2COOH 8. Give simple chemical tests to distinguish between the following pairs of compounds.

	(i) Propanal and Propanone (ii) Acetophenone and Benzophenone (iii) Phenol and Benzoic acid (iv) Benzoic acid and Ethyl benzoate (v) Pentan-2-one and Pentan-3-one (vi) Benzaldehyde and Acetophenone. (vii) Ethanal and Propanal 9. How will you prepare the following compounds from benzene? You may use any inorganic reagent and any organic reagent having not more than one carbon atom. (i) Methyl benzoate (ii) m-nitrobenzoic acid (iii) p-nitrobenzoic acid (iv) Phenylacetic acid (v) p-nitrobenzaldehyde 10. How will you convert: (i) Propene to Propan-1-ol? (ii) Ethanal to Propan-2-ol? 11. Show how will you synthesize: i) 1-phenylethanol from a suitable alkene. ii) Cyclohexyl methanol using an alkyl halide by an SN₂ reaction. iii) pentan-1-ol using a suitable alkyl halide? 12. How are the following conversions carried out? (i) Propene → Propan-2-ol ii) Benzyl chloride → Benzyl alcohol iii) Ethyl magnesium chloride → Propan-1-ol. 13. Name the reagents used in the following reactions: (i) Oxidation of a primary alcohol to carboxylic acid. (ii) Oxidation of a primary alcohol to aldehyde. iii) Bromination of phenol to 2,4,6-tribromophenol. 14. How is aspirin (Acetylsalicylic acid) prepared from salicylic acid? 15(i) Write hydroboration oxidation reaction with an example 16. Why are alkyl amines stronger bases than aryl amines? 17. Give a chemical test to distinguish between Aniline and N-Methylaniline. 18. Why does electrophilic substitution in aromatic amines take place more readily than in Benzene? 19. Explain Hinsberg's test to distinguish between primary, secondary and tertiary amines. 20. How will you convert Aniline into benzene diazonium chloride? 21. Write a chemical test to distinguish between Methylamine and Dimethylamine? 22. Why do primary amines have higher boiling points than tertiary amines? 23. What is Diazotization? Write chemical reaction involved. 24. How will you convert a). Aniline to Chlorobenzene b). Phenol to Aniline 25. How will you convert a). Nitrobenzene to Benzoic acid b). Aniline to Benzyl alcohol 26. Give reasons for the following: a). o-Toluidine is less basic than Aniline b). Tertiary amines do not undergo Acylation reactions Samppaper- https://acrobat.adobe.com/id/urn:aaid:sc:AP:083fe9e2-0d86-45a0-a80b-330da8839ba5
BIOLOGY	1. Complete your Biology Practical File and Investigatory Project. 2. Solve the CBSE Sample paper in notebook. https://cbseacademic.nic.in/SQP_CLASSXII_2026-27.html 3. Solve the given worksheet in your notebook.
COMPUTER	Complete Project file and Practical file

SC.	Solve CBSE Sample paper in notebook https://cbseacademic.nic.in/web_material/SQP/ClassXII_2024_25/
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