

PM SHRI KV AGCR COLONY SHIFT II

HOLIDAY HOMEWORK

AUTUMN BREAK (2025)

CLASS VI D, E, F

ENGLISH

Autumn Break Holiday Homework - Class 6

Note: Do the work in A4 sheets and make folder

1. Write a short story (150-200 words) on "A Mysterious Autumn Evening". Use at least 5 autumn-related words like leaves, breeze, golden, harvest, and twilight.
2. Collect 5 different types of dry autumn leaves. Paste them in A4 sheets and write one line about each leaf (shape, colour, or texture).
3. Read any storybook during the holidays. Write its summary in your own words and mention your favourite character with reasons.
4. Compose a small poem (8-10 lines) on "Falling Leaves" or "Joy of Autumn Holidays" and write beautifully in A4 sheet.
5. Write 5 simple ways in which you can keep your surroundings clean during this festive/autumn season.
6. Portfolio Work:

Create a one-page Autumn Break Journal. Draw or paste one picture each day (sunset, trees, flowers, family activity, etc.) and write 2-3 sentences about what you enjoyed most on that day.

विषय-हिन्दी

छुट्टियों का गृहकार्य

1. रचनात्मक लेखन
 - "मेरे सपनों का विद्यालय" विषय पर छोटा अनुच्छेद लिखिए।
2. कहानी निर्माण
 - नीचे दिए तीन शब्दों से एक छोटी कहानी बनाइए:
पेड़, बच्चा, इंद्रधनुष
 - कहानी को चित्र के साथ सजाइए।
3. कविता लेखन

◦ "प्रकृति" या "बारिश" पर 4–6 पंक्तियों की अपनी कविता लिखिए।

4. पठन कार्य

◦ कोई भी पसंदीदा किताब/कहानी पढ़कर उसके मुख्य पात्र का चित्र बनाइए और 3–4 वाक्य लिखिए।

5. व्याकरण खेल

◦ अपने घर की चीजों को देखकर 10 संज्ञा और 10 विशेषण ढूँढकर लिखिए।
◦ 5 शब्दों से नए वाक्य बनाकर कॉमिक-स्टाइल चित्र तैयार कीजिए।

MATHS

1. Complete MDP
2. Complete learners diary.
3. Write and learn table till 20.
4. Write and learn square and cubes upto 15.
5. Solve 5 questions related to following topics..
 - (a) Prime factorisation
 - (b) Fraction addition.
 - (c) Fraction subtraction
 - (d) LCM
 - (e) HCF

Artificial Intelligence (AI)

1. Short Answers:

a) What are the three domains of AI? What are their applications in everyday life?

b) What is Computer Vision? Where do we use Computer Vision in everyday life? Give examples.

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.
- Bring after Autumn Break.

SST

- Draw a world map.
- Make a project on panchayati Raj system.
- Describe the importance of work.
- Make a list of artefacts.

SANSKRIT - घड़ी का चित्र बनाए और संस्कृत में समय लिखें। जैसे - सार्द्ध, पादोन, सपाद और एक, द्वि, पंच, अष्ट वादनम् ।

प्रतिदिन संस्कृत पठन करे।

HOLIDAY HOMEWORK

AUTUMN BREAK (2025)

CLASS VII D, E, F

हिंदी

*दस पर्यायवाची, और विलोम शब्द लिखें।

*"एक दिन जंगल में " पर एक छोटी से कहानी लिखें।

*दांत, धोका, त्यौहार, पढाई, उपर, इसलीए, प्रशन, बिमारी, दिपावली, कालीदास आदि शब्दों को शुद्ध करके लिखें।

*पाठपुस्तक में से कोई पाठ पढ़ें – उसका सारांश लिखें , पाठ का संदेश क्या है।,यह भी बताएं।

ENGLISH

Grammar & Vocabulary

1. Identify the type of phrase (noun/verb/adjective/adverb/prepositional) in the sentences:
 - a) The boy with curly hair is my classmate.
 - b) She was singing a sweet song.
 - c) He ran with great speed.
 - d) My wish to travel the world is strong.
 - e) The children were playing in the park.
2. Fill in the blanks with correct idioms/proverbs:
 - a) Don't _____ your chickens before they hatch.
 - b) Practice makes _____.
 - c) The new maths lesson was a _____ of cake.
 - d) Where there's a _____, there's a way.
 - e) Honesty is the best _____.

Writing Skills

1. Letter to the Editor (Unit: Environment)
Write a letter to the editor of *The Times of India* about the problem of plastic waste in your locality. Suggest two solutions. (120–150 words)
2. Email Writing
Write an email to your English teacher asking for tips on how to improve your writing and vocabulary during the holidays. (120 words)

Choose any one:

1. Imagine you are Jahnvi from *The Day the River Spoke*. Write a diary entry about your adventure with the river. (120 words)
2. Create a word puzzle (crossword/word search) using 10 new words from *Poorvi*.

Section A: Multiple Choice Questions

1. Which of the following is an algebraic expression?

(a) $7+8$ (b) $5x+3$ (c) $10-4$ (d) $12\div 3$

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: $7 \times 4 + 9 \times 6$ and explain the steps.
 3. Evaluate: $23 - 10 \times 2$ 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 $n = 10$.

2. Recognize the pattern and write next three terms in the given sequences:

(a) 3, 8, 13, 18, $_$, $_$, $_$

(b) 4, 7, 10, $_$, $_$, $_$

SCIENCE

Answer the following questions:

1. Look around your home and select 10 everyday items (e.g., spoon, glass, cloth, eraser, paper).

Make a table like this:

Object	Material	Hard/Soft	Transparent/Opaque	Sink/Float
Glass tumbler	Glass	Hard	Transparent	Sink

2. a) On the Map of India, locate the coldest place and hottest place.

b) Record the lowest and highest temperature of 7 days. Make a bar graph each of lowest and

highest temperature and try to find out which day was the coldest and hottest one?

3. Why are utensils mostly made of metal and not plastic or wood?

4. Why do we feel hotter even if the thermometer shows the same temperature in summer and winter?

5. Make a chart with three columns and list:

5 solids

5 liquids

3 gases

Question: Observe what happens when:

Ice is kept in sunlight

Water is boiled

Steam touches a cool surface

6. Can a substance exist in more than one state at the same time? Give an example.

5. Write about any 2 separation techniques which use in daily life and paste their pictures.

7. Prepare an innovative model for science exhibition. Do all activities in your Science Activity Notebook.

8. Essay writing on "Addressing obesity through reduction in sugar, salt and oil consumption" on A4 size paper.

AI

Navigating AI Domains and Emerging Frontiers

1. Short Answers:

a) What is Natural Language Processing (NLP)? Explain in simple words.

b) Write three real-life applications of NLP (example: Google Translate).

c) What is Statistical Data? Why is it important in AI?

d) Write three examples of Statistical Data use (example: health records, weather prediction).

1. Activity:

Make a chart with two columns:

- Column 1: "AI Domain" (NLP /CV/ Statistical Data)

- Column 2: "Applications" (at least three examples for each domain).

Artificial Intelligence – Exploring Innovations and Societal Sustainability

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

Submission

- All answers in your notebook.

- Activities on chart paper or as a PowerPoint.

- Bring after Autumn Break.

SANSKRI

शब्द सूची-

फलो, पेशु- पक्षियों, परिवार के सदस्यों तथा संख्याओं के संस्कृत शब्द लिखें।
प्रतिदिन संस्कृत पठन करे।

हिंदी

"स्वदेश" पाठ पढ़िए और उसकी मुख्य भावनाओं को 5 वाक्य में लिखिए।

"दो गौरैया" पाठ की कहानी का सारांश अपने शब्दों में 5-6 वाक्य में लिखिए।

"एक आशीर्वाद" कविता का भावार्थ 4-5 वाक्य में लिखिए, कविता से अपनी पसंदीदा पंक्ति चुनिए और कारण लिखिए।

"हरिद्वार" पाठ पढ़िए और वहाँ के प्राकृतिक सौंदर्य, धार्मिकता एवं लेखक की भावनाएँ 6-8 वाक्य में लिखिए।

"हरिद्वार" का दृश्य दर्शाने वाला एक रंगीन चित्र बनाइए जिसमें गंगा घाट, तीर्थ यात्री एवं पर्वत हों।

'हरिद्वार' पाठ में से तीन नए शब्द चुनिए, उनके अर्थ लिखिए और हर शब्द से दो-दो वाक्य बनाइए।

अपने किसी परिजन या मित्र से हरिद्वार के बारे में बात कीजिए और उसका अनुभव 6-8 वाक्य में लिखिए।

व्याकरण अभ्यास के लिए संज्ञा, सर्वनाम और विशेषण के तीन-तीन उदाहरण हर पाठ में से चुनकर लिखिए।

सभी प्रश्न अलग-अलग पन्नों पर साफ-साफ लिखें एवं प्रत्येक कार्य के अंत में दिनांक अवश्य लिखें।

ENGLISH

- Paragraph writing on Durga Puja and Dussehra festival celebrated in your locality. Paste related pictures on A4 size sheet
- 5 Idioms and 5 Proverbs
- Vocabulary records is to be maintained for writing down 5 new new words daily that you are exposed to (e.g. Word of the day, words that you come across while reading books, etc.)
- The Residents' Welfare Association, Green Park is organizing a 'Dussehra Fiesta' in the locality. As the president of the association, draft a notice in not more than 50 words informing the residents about the same. Give other essential details too.

MATHS

- PM SHRI KENDRIYA VIDYALAYA AGCR COLONY II SHIFT (DELHI)
- SESSION 2023-24
- CLASS-VIII
- SUBJECT-MATHEMATICS
- AUTUMN BREAK HOLIDAY HOMEWORK
- 1. Prepare a Learners Diary for Maths.
- 2. Learn and write tables from 11 to 25.
- 3. Learn and write squares from 11 to 25.
- 4. Learn and write cubes from 2 to 15.
- 5. Find

- 6. Simplify and solve the following linear equations.
- (a) $3(5z - 7) - 2(9z - 11) = 4(8z - 13) - 17$
- (b) $0.25(4f - 3) = 0.05(10f - 9)$
- 7. Find the measure of each exterior angle of a regular polygon of
- (a) 9 sides (b) 15 sides
- 8. In the given figure both RISK and CLUE are parallelograms. Find the value
- of x.
- 9. The number of students in a hostel, speaking different languages is given
- below. Display the data in a pie chart.
- 10. When a die is thrown, list the outcomes of an event of getting
- (i) (a) a prime number (b) not a prime number.
- (ii) (a) a number greater than 5 (b) a number not greater than 5.
- 11. Write a Pythagorean triplet whose one member is.
- (a) 16 (b) 18
- 12. find the smallest whole number by which it should be divided so as to
- get a perfect square. Also find the square root of the square number so
- obtained.
- (a) 396 (b) 1620
- 13. Find the square root of the following decimal numbers.
- (a) 51.84 (b) 42.25
- 14. Find the smallest number by which each of the following numbers must
- be multiplied to obtain a perfect cube.
- (a) 256 (b) 72
- 14. Find the smallest number by which each of the following numbers must
- be divided to obtain a perfect cube.
- (a) 128 (b) 135
- ACTIVITY
- 15. Activity by paper cutting and pasting method... (a) Prove that the sum of
- the measures of the external angles of any polygon is 360° .

SCIENCE

1. Read the rest of chapter 4 Electricity and solve it's book work & complete notes in fair notebook of science.
2. Read chapter 5; Exploring forces, make notes including bullet points, flowchart, pictures etc.
3. Make A4 size OR half of a chart size posters from chapter 7; Particulate Nature of Matter, try not to copy from each other or discuss with friends about the topic they are choosing and submit a different one.
4. LEARN the notes of chapter 7, will be provided in the group, NO NEED TO WRITE.
5. Slogan writing on "Early child care and education" (ECCE) OR "Poshan Bhi Padhai Bhi" (PBPB)

SST

1. Write about Revolt of 1857: causes, leaders, and consequences.
2. Write short notes (80–100 words each) on **any two tribal leaders** and their contribution in resisting British rule.
3. Prepare a timeline showing at least 6 important events (with date + one-line description).
4. Collect and paste **two pictures** (from newspaper/Internet) showing **heritage sites or**

paintings related to the chapter on **Colonialism & Tribal Communities**.

1. Prepare a table of **soil types in India** (Name – States found – One crop grown – One conservation method)
2. On an outline map of India, instead of just shading, **draw small crop symbols** (e.g., wheat stalk, rice paddy, cotton boll) in the regions where they are grown.(you can draw map on A4 sheet then paste in h.h.W notebook)

1. Prepare a list of **six Fundamental Rights** and explain each with one real-life
2. **Unity Quilt** – On A3 sheets, design a **quilt-like grid**. In each square, draw/paste something representing India's diversity (food, dress, language, festival). Write one sentence under each.

AI

Part A – Short Answers

Answer these in your notebook:

1. What is an AI Project Cycle? Explain in 4-5 simple lines.
2. Write the names of the stages of the AI Project Cycle and write one line on why each stage is important.
3. What is Ethics? What is AI Ethics? Give one real-life example of AI Ethics (like self-driving cars following traffic rules).

Part B – 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
- Bring after Autumn Break

संस्कृत -

श्लोक संग्रह -

5 से 10 सरल संस्कृत श्लोक एकत्रित करे। श्लोक संस्कृत भाषा में लिखें तथा उसका हिंदी भाषा में अर्थ लिखे।
प्रतिदिन संस्कृत पठन करे।

हिन्दी

*प्रयटन, फागुन, पुन्य, महत्व, भाग्यमान, परलय, हिरन, व्यंग, श्राप, रामायन आदि शब्दों को शुद्ध करके लिखें।

*मोबाइल फोन के फायदे और नुकसान पर 300- 400 शब्दों में अनुच्छेद लिखें।

*दस उपसर्ग और प्रत्यय के उदाहरण लिखें।

*अपने मित्र को "छुट्टी के अनुभव" के बारे में अनौपचारिक पत्र लिखें।

ENGLISH

CLASS IX HHW AUTUMN BREAK

1. Write book review of The wings of fire.
2. Make a photo album of Santosh Yadav and Maria Sharopava.
3. learn all poetic devices occurred in all taught poems.

Maths

1. Find which of the variables x , y , z and u represent rational numbers and which irrational numbers:

(i) $x^2 = 5$ (ii) $y^2 = 9$ (iii) $z^2 = .04$ (iv) $u^2 = 17/4$

2 Simplify the following:

(i) $(17)^{\frac{1}{6}} (3)^{\frac{1}{6}}$

(ii) $(1^3 + 2^3 + 3^3)^{\frac{1}{2}}$

3. Locate $\sqrt{5.3}$ on the number line.

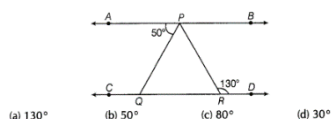
4. If $a = 5 + 2\sqrt{6}$ and $b = 1/a$, what will be the value of $a^2 + b^2$?

5. Calculate the perimeter of a rectangle whose area is $25x^2 - 35x + 12$.

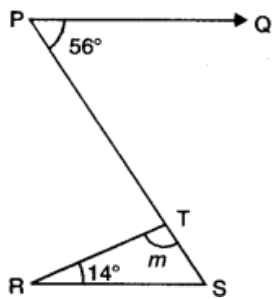
6. If $(x - 1/x) = 4$, then evaluate $(x^2 + 1/x^2)$

7. Find the value of the polynomial $5x - 4x^2 + 3$ at $x = 2$ and $x = -2$.

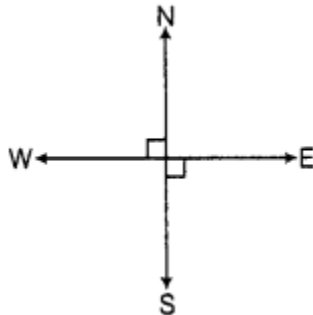
8. Name the angles which are : (a) 130 (b) 50 (c) 80 (d) 30 degrees



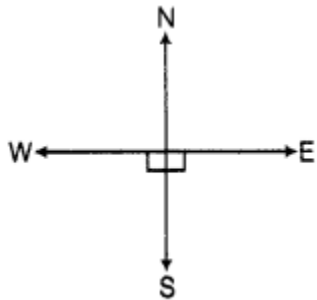
9. Find m



10. The angles between North and West and South and East are
 (a) complementary (b) supplementary
 (c) both are acute (d) both are obtuse
(b)



11. Angles between South and West and South and East are
 (a) vertically opposite angles (b) complementary angles
 (c) making a linear pair (d) adjacent but not supplementary

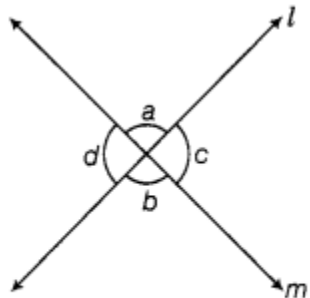


12. If the complement of an angle is 79° , then the angle will be of
 (a) 1° (b) 11°
 (c) 79° (d) 10
13. Angles, which are both supplementary and vertically opposite are
 (a) $95^\circ, 85^\circ$ (b) $90^\circ, 90^\circ$
 (c) $100^\circ, 80^\circ$ (d) $45^\circ, 45^\circ$
14. The angle which makes a linear pair with an angle of 61° , is of
 (a) 29° (b) 61°
 (c) 122° (d) 119°
15. The angles x and $90^\circ - x$ are
 (a) supplementary (b) complementary
 (c) vertically opposite (d) making a linear pair
16. The angles $x - 10^\circ$ and $190^\circ - x$ are
 (a) interior angles on the same side of the transversal
 (b) making a linear pair

(c) complementary

(d) supplementary

17. In the given figure, lines l and m intersect each other at a point. Which of the following is false?



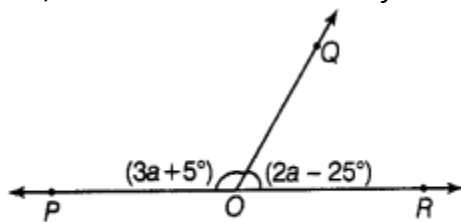
(a) $\angle a = \angle b$

(c) $\angle a + \angle d = 180^\circ$

(b) $\angle d = \angle c$

(d) $\angle a = \angle d$

18. In the given figure, POR is a line. The value of a is



(a) 40°

(b) 45°

(c) 55°

(d) 60

19. Find the measure of all the angles of a parallelogram, if one angle is 24° less than twice the smallest angle.

20. state and prove mid point theorem

DO THESE QS AND COMPLETE YOUR

1 MATHS ACTIVITY FILE

2 PORTFOLIO

3 MLL QUESTIONS SOLUTION

SCIENCE

1. Revise all the chapters.

2. Complete intext and exercise of all taught chapter including gravitation. (fair notebook)

3. Solve the PT-2 QUESTION PAPER and paste in any of the fair notebooks of science. (fair notebook)

4. Complete portfolio of chapter "Natural Resources" including the shared format and submit the same for internal assessment marks. (Designed pages minimum 8 and maximum 10 pages with proper file)

5. Write all the formulae of motion in a single page, force and laws of motion in another page and gravitation in the 3rd page and learn these formulae. (ATTACH ALL THE 3 PAGES WITH PORTFOLIO FILE WITH A BOOKMARK).

6. Poster on the topic of "Vocal for local for grassroots empowerment" on A4 size sheet.

SST

1. Solve PT-2 Question Paper in your Social Science notebook.
2. Do complete the portfolio format has been shared in class whatsapp group.
3. Complete the notes and textbook exercises of all the chapters taught in the class.
4. Make an interdisciplinary project file. [Reference chapters: Forest, society and colonialism(History) and Natural Vegetation and wildlife (Geography)]
5. Make timeline of chapter:- Nazism and the rise of Hitler.
6. Read chapter Climate and Poverty as a challenge and prepare 10 MCQs from each chapter.

AI

Interactive Data Dashboard & Presentation

Questions:

1. What is Data Visualization? Why is it important?
2. What is a No-Code Tool? Give one example.
3. How can charts help people understand data better?

Activity:

- Use any free No-Code tool (like Google Sheets, Datawrapper, Canva charts, or Excel Online) to create one simple interactive chart of your choice (for example: “Favourite fruits of my classmates”).
- Take a screenshot or print-out of your chart and paste it into your notebook/chart paper.
- Write 3–4 lines explaining what your chart shows.

Math for AI (Statistics & Probability)

Questions:

1. Why is Mathematics important in AI?
2. List two mathematical concepts that are important for AI (example: statistics, probability).

Statistics

Questions:

1. What is Statistics?
2. Write two examples of how statistics is used in AI applications.

Activity:

- Collect a small set of data (like “hours you study each day for a week”) and calculate the average.
- Present your data in a small table or bar chart.

Probability

Questions:

1. What is Probability?
2. Write two examples of how probability is used in AI applications (example: weather prediction, spam filtering).

Activity:

- Flip a coin 20 times. Count how many times you got heads vs tails.
- Calculate the probability of heads and tails from your experiment.

Submission

- All answers in your notebook.
- Activities on chart paper or as a PowerPoint.
- Bring after Autumn Break.

हिंदी

. पाठ - "साना-साना हाथ जोड़ि" पढ़िए।

इसमें यात्रा-वर्णन की विशेषताओं को लिखिए। अपने जीवन की किसी छोटी यात्रा का संक्षिप्त यात्रा-वृत्तांत लिखिए (200 शब्दों में)।

2. पाठ - "नेताजी का चश्मा" पाठ का सारांश लिखिए। अपने घर या समाज से जुड़ा कोई हास्यप्रद प्रसंग लिखिए, जिसे पढ़कर लोग मुस्कुरा उठे।

3. कविता - "उत्साह" (सूर्यकांत त्रिपाठी निराला) कविता से प्रेरित होकर "आत्मविश्वास और परिश्रम" विषय पर 8 पंक्तियों की कविता लिखिए।

कविता का एक चित्रात्मक पोस्टर बनाइए जिसमें "उत्साह" शब्द का चित्रों के माध्यम से अर्थ स्पष्ट हो।

4. अलंकार परिचय

(उपमा, रूपक, उत्प्रेक्षा, मानवीकरण, अतिशयोक्ति) की परिभाषा और पाँच - पाँच उदाहरण लिखिए।

5. कर्तृवाच्य, कर्मवाच्य और भाववाच्य की परिभाषा लिखिए।

प्रत्येक के 5-5 उदाहरण बनाइए।

English

1. Email Writing

(a) Unit: Education

Write an email to your teacher asking for suggestions on how to prepare effectively for the upcoming board exams. Mention the difficulties you face in time management, stress, and English writing practice. (Word limit: 120)

(b) Unit: Travel & Tourism

Write an email to your friend describing your visit to a famous historical monument (Taj Mahal/Red Fort/Hampi). Share details of the architecture, your feelings on seeing it, and why everyone should visit it. (Word limit: 120)

2. Letter to the Editor

(a) Unit: Environment

Write a letter to the editor of *The Times of India* expressing your concern about the rising problem of plastic waste in your city. Suggest practical measures the public and government should adopt. (Word limit: 120–150)

(b) Unit: Health & Medicine

Write a letter to the editor of a national daily highlighting the growing problem of junk food consumption among school children and suggesting ways to promote healthy eating habits. (Word limit: 120–150)

3. Article Writing

(a) Unit: Science

“Artificial Intelligence – A Boon or a Bane?”

Write an article discussing how AI is transforming human life, its advantages (speed, accuracy, problem-solving), and disadvantages (job loss, misuse). Conclude with your balanced opinion. (Word limit: 150)

(b) Unit: Education

“Skill Development vs. Rote Learning”

Write an article on why developing practical skills (coding, communication, critical thinking) is more important than memorizing answers. Suggest how schools can make learning more effective. (Word limit: 150)

(c) Unit: Travel & Tourism

“Discover Incredible India”

Write an article encouraging foreign tourists to visit India. Mention historical sites, cultural diversity, food, and hospitality. Add a catchy slogan at the end. (Word limit: 150)

1. Literature (Drama & Play)

A. Julius Caesar

- Write a character sketch of Brutus in about 150–200 words.
- “Cowards die many times before their deaths; the valiant never taste of death but once.” → Explain this quote with reference to Caesar’s fate. (120–150 words).

✨ This homework set will give you 2 emails, 2 letters, and 3 articles—a perfect coverage of writing tasks based on MCB units.

MATHS

- 1) Complete maths activity file .
- 2) Prepare Portfolio as per format given.
- 3) Download and solve maths sample paper (standard and basic both) and solve on separate maths holiday homework notebook.
Link is given as follows:
Class X - https://cbseacademic.nic.in/SQP_CLASSX_2025-26.html
- 4) Revise Chapter 1 to 10 from NCERT book alongwith examples.

SCIENCE

1. Do the PT-2 question paper in the science copy.
2. Do the sample papers issued by the CBSE Board.
3. Solve the Sample paper provided to you.



4. Do the worksheets given to you for practice.
5. Write the practicals in your practical copy and submit after break.

Given: worksheets on

How do organism reproduce

Heredity

Our environment

SST

Make a separate notebook and write answers of the following most repeated questions of CBSE Board examinations.

Day 1 (Rise of Nationalism in Europe)

1. What steps did the french revolutionary take to create the sense of collective identity among the french people.
2. Write the steps of unification of ITALY, GERMANY AND BRITAIN.
3. Describe the provisions of civil code 1804.
4. Write provisions of Treaty of Vienna.
5. Explain the role of culture (language, folk tales, songs, art) in developing the spirit of nationalism in Europe.
6. Explain the causes of Balkan conflict.

Day2 (Nationalism in India)

7. What is meant by the idea of Satyagrah. What were the first three satyagrah led by Mahatma Gandhi.
8. How had the first world war created economic crises in India.
9. Explain simon commission.
10. What is the difference between NCM and CDM.

Day3 (The making of global world)

11. How did the Silk Routes link distant parts of the world? Explain with examples of goods, culture, and ideas that travelled.
12. Explain how new crops and foods transformed the lives of people in Europe.
13. Explain the reasons for the Spanish conquest and victory over the native peoples of America.

Day 4 (Resources and Development)

14. What is a resource?
15. Difference: Renewable resources & Non-Renewable Resources.
16. Explain Rio de Janeiro Summit, 1992.
17. What steps can be taken to control soil erosion?

(Forest and wildlife resources)

18. Describe the role of the community in forest and wildlife conservation.

(Water Resources)

19. Write advantages and disadvantages of multipurpose projects.
20. Describe any three traditional methods of rainwater harvesting adopted in different parts of India.

Day 5 (Power sharing)

21. What factors led to a civil war in Sri Lanka?
22. Power is shared between different social groups". Explain with examples.
23. Write moral and prudential reason of Power sharing.

(Federalism)

24. Describe the three – fold distribution of legislative powers between the union government and state government.
25. Distinguish between “coming together federation” and “holding together federations” with examples. India comes under which type of federation?
26. Discuss the importance of decentralisation in India with examples.

Day 6(Gender, Religion and Caste)

- 27. Mention the constitutional provisions that make India a secular state.
- 28. it is not politics that gets caste-ridden, it is the caste that gets politicised.

(Development)

- 29. What is development? What is national development? What are the aspects covered under the national development?
- 30. "Money cannot buy all the goods and services that one needs to live well." Explain.
- 31. What are the criterias used by World Bank and UNDP to assess different countries of the world in terms of development?

Day7 (Sectors of the Indian Economy)

- 32. What is the difference between organized and unorganised sectors.
- 33. What is the difference between public and private sectors.
- 34. What are the objectives of NREGA 2005? Or Why do you think NREGA, 2005 is referred to as "Right to Work"?

Day 8(Money and Credit)

35. Self-help Groups support has brought about a revolutionary change in the rural sector". Explain with examples.

36. What is the difference between formal and informal sources of credit.

37. What is the double coincidence of wants.

38. What are the functions of RBI.

39. Modern currency is accepted as a medium of exchange without any use of its own". Why? Give five reasons.

40. Explain the Importance of cheap and affordable credit for the country's development.

Day 9 (Globalisation and the Indian Economy)

41. Technology has stimulated the Globalisation process." Support the statement with examples.

42. Why had the Indian government put barriers to foreign trade and foreign investment after independence? Analyse the reasons.

43. How has information and communication technology stimulated globalisation process? Explain with examples.

Day 10

Revise and learn all the above mentioned questions.

UNIT 4: Statistical Data (No-Code AI for Statistical Data)

1. Define No-Code and Low-Code AI.
2. Identify the differences between Code and No-Code AI concerning Statistical Data.
3. Relate AI project stages to the stages of No-Code AI projects.
4. Orange Data Mining is a machine learning tool for data analysis where we can perform operations through simple drag-and-drop steps.
5. Descriptive statistics – Mean, Median, Mode – help us to describe the data and its underlying characteristics.
6. No code tools for AI projects.
7. Make small AI model using tools given in chapter.

Note: do this work in practical file prepared in Summer break.

हिंदी

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 जानां," "मेरे तो गिरधर गोपाल," आदि का भावार्थ 4-5 वाक्यों में लिखिए।
- 2- "घर की याद" और "चंपा काले-काले अक्षर नहीं चिन्हती" में कवि के मनोभावों को संक्षेप में 6-7 वाक्य में लिखिए।
- 3- उपलब्ध गज़ल 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 (7-8 वाक्य)।
- 2- "अपू के साथ ढाई साल" कहानी का पात्र परिचय व मुख्य घटना संक्षेप में लिखिए।
- 3- "विदाई-संभाषण" तथा "गलता लोहा" के मुख्य विचार लिखिए।

वितान भाग-1

- 1- लता मंगेशकर का गायन की दुनिया में क्या महत्व है, लिखें। 50 शब्दों में
- 2- "राजस्थान की रजत बूँदे" 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: किसी मित्र को छुट्टियों का विवरण देते हुए एक पत्र लिखिए।

ENGLISH

Dear Students

Do the following work in Autumn Break:-

1. Project

Project Topic : Pick a Book of your choice and submit a detailed project report on the same after having read it.

2.

The Project-Portfolio (BOOK REPORT) 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 task.
- 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!

HISTORY

- make a project on the Roman empire.
- What were the features of the nomadic empire?
- What was the role of temples in Mesopotamian civilization?
- What is the meaning of Renaissance?

GEOGRAPHY locate Indian states and their capital, locate world countries with capitals, locate main ocean and continent, make a list of lake and rivers, locate peaks and passes of Himalaya. Make mcq from all topics of physical environment of India. Make a list of landforms made by winds, water, waves.

POL SCI.

1. Comparative chart (it should be drawn in fair notebook on light blue or yellow paper) (any 2)
 - a. Compare India vs USA federalism
 - b. Indian constitution vs Britain constitution
 - c. Parliamentary vs. Presidential form of Government
2. Choose any one recent political issue in India (e.g., women's reservation bill, environmental protests, climate change elections, role of Election Commission) and write a 3-page analysis linking it with the topics studied like equality, justice and freedom.
3. Make one separate file of A4 paper and write daily news and paste cutting of current affairs on Indian polity.

MATHS

 CLASS XI AUTUMN BREAK HOMEWORK MATH .docx

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

BST

1. Complete practical questions of the chapters covered.
2. Complete short questions of all chapters covered in the textbook.
3. Solve paper- https://edustud.nic.in/edu/practicepaper_2022/11/11Accountancy_2022.pdf

ECONOMICS

1. Do all practical questions of the chapter - Measures of Central Tendency - 8, 9 (Mean, Median, Quartile)
2. Explain the cardinal and ordinal measurement of utility.
3. Explain any four properties of indifference curves.
4. Explain consumer's equilibrium with the help of Indifference curve.
5. Distinguish between 'movement along the demand curve' and 'shift in demand curve'. Use diagram.

6.Explain the factors that affect individual demand for a commodity

CHEMISTRY

1. Write general electronic configuration of Cu^+ (Atomic number of $\text{Cu}=29$).
2. Which one of the following will have largest number of atoms ?
 $1\text{g Na}_{(s)}$ or $1\text{g Li}_{(s)}$
3. What is meant by electron precise hydrid ? Give one example.
4. How are $0.50\text{ Na}_2\text{CO}_3$ and $0.50\text{ m Na}_2\text{CO}_3$ different?
5. Define enthalpy, free energy and entropy
6. Compare the relative stability of the following species and indicate their magnetic properties.
 O_2 , O_2^+ , O_2^- , O_2^{2-}
7. Account for following
 - a) Atomic radius of Inert gases is bigger.
 - b) Noble gases are less reactive.OR

Account for followings

- a) Flourine has higher electron gain enthalpy than chlorine.
 - b) Ionisation enthalpy of nitrogen is greater than oxygen
8. (a) Write IUPAC name of element with atomic number 109.
(b) An atomic orbital has $n=3$. What are the possible vales of l and m ?
(c) Write general electronic configuration of d-Block elements.
 9. Calculate ΔG° 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} . ($R=8.314\text{ JK}^{-1}\text{mol}^{-1}$)
 10. Assuming complete dissociation, calculate, calculate the pH of the following solutions: -
 - a) 0.003 M HCl
 - b) 0.005 M NaOH
 11. (a)
 12. a.Draw the shape of H_2O , BaCl_2 and NH_3 using VSERPR theory
b.Write three characteristic of hybridisation.

13. (a) He₂ doesn't exist. Why?
 (b) Distinguish between Sigma and a Pi bond.
14. Define threshold frequency. The threshold frequency for a metal is $7.0 \times 10^{14} \text{s}^{-1}$. Calculate the kinetic energy of an electron emitted when radiation of frequency $1.0 \times 10^{15} \text{s}^{-1}$ hits the metal.
15. Arrange the following in the increasing order of property indicated.
 a) B, C, N, F, Si (non-metallic character)
 b) F, Cl, O, N (chemical reactivity)
 c) B, Al, Mg, K (metallic character)
16. (a) Define limiting reagent.
 (b) Express the following in the scientific notations.
 (i) 0.0048 (ii) 8008
17. The density of 3M solution of NaCl is 1.25 g/ml. Calculate the molality of the solution.
18. State
 (i) Heisenberg's uncertainty principle
 (ii) Hund's rule
 (b) A microscope using suitable photon employed to locate an electron in an atom within distance of $0.1 \text{\AA}$. What is the uncertainty involved in the measurement of its velocity?
 (c) State two limitations of Bohr's model of an atom.
 (d) State Pauli's exclusion principle.
 (e) Calculate energy of one mole of photon of radiation whose frequency is $5 \times 10^{14} \text{ Hz}$.
19. (a) Predict the signs of ΔH and ΔS for the following reaction. Give reasons also.
 $2\text{Cl}_{(\text{g})} \rightarrow \text{Cl}_{2(\text{g})}$
 (b) Calculate the standard enthalpy of formation of CH₃OH from the following data.
 $\text{CH}_3\text{OH} (\text{l}) + 3/2 \text{O}_{2(\text{g})} \rightarrow \text{CO}_{2(\text{g})} + 2\text{H}_2\text{O}_{(\text{l})} \quad \Delta_r H^\circ = -726 \text{ kJ/mol}$
 $\text{C}_{(\text{g})} + \text{O}_{2(\text{g})} \rightarrow \text{CO}_{2(\text{g})} \quad \Delta_c H^\circ = -393 \text{ kJ/mol}$
 $\text{H}_{2(\text{g})} + 1/2 \text{O}_{2(\text{g})} \rightarrow \text{H}_2\text{O}_{(\text{l})} \quad \Delta_f H^\circ = -286 \text{ kJ/mol}$
- (a) State Hess's law.
 (b) Derive the relationship between C_p and C_v for an ideal gas.
 (c) For the reaction $2\text{A}(\text{g}) + \text{B}(\text{g}) \rightarrow 2\text{D}(\text{g})$
 $\Delta U^\circ = -10.5 \text{ KJ}$ and $\Delta S^\circ = -44 \text{ JK}^{-1}$
 Calculate ΔG° for the reaction and predict whether the reaction may occur spontaneously.
20. (a) State Lechatelier's principle
 Describe the effect of
 (i) addition of H₂.
 (ii) Addition of CH₃OH
 on the equilibrium of the reaction
 $2\text{H}_2(\text{g}) + \text{CO}(\text{g}) \rightleftharpoons \text{CH}_3\text{OH}(\text{g})$
 (b) One mole of H₂O 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}

COMPUTER SCIENCE

1. Write a program to read elements of a list.
 - a) The program should ask for the position of the element to be deleted from the list. Write a function to delete the element at the desired position in the list.
 - b) The program should ask for the value of the element to be deleted from the list. Write a function to delete the element of this value from the list.
2. Read a list of n elements. Pass this list to a function which reverses this list in-place without creating a new list.
3. Write a function to return the second largest number from a list of numbers.
4. What will be the output of the following code segment?
 - a.

```
myList = [1,2,3,4,5,6,7,8,9,10]

del myList[3:]

print(myList)
```
 - b.

```
myList = [1,2,3,4,5,6,7,8,9,10]

del myList[:5]

print(myList)
```
 - c.

```
myList = [1,2,3,4,5,6,7,8,9,10]

del myList[::2]

print(myList)
```
5. Write a function that takes a sentence as an input parameter where each word in the sentence is separated by a space. The function should replace each blank with a hyphen and then return the modified sentence.
6. Write a function `deleteChar()` which takes two parameters one is a string and other is a character. The function should create a new string after deleting all occurrences of the character from the string and return the new string.

Mini Project: Write a program that accepts a paragraph (multi-line string) and:

- Counts total characters, words, and sentences.
- Displays the word with the maximum num

List Analyzer: Write a Python program that accepts a list of numbers and prints:

- Total elements
- Maximum, minimum, and average
- Sorted list

BIOLOGY

1. Complete the worksheet on biomolecules and cell cycle and cell division.

2. Prepare a model on any one allotted topic for RSBVP.
3. Revise the mentioned half yearly syllabus and cover all the important questions as discussed in the class.

PHYSICS

1. MAKING OF PROJECT ON ANY 1 TOPIC OF RSBVP.
2. TO REVISE THE SYLLABUS DONE IN CLASS.

Holidays Homework (Autumn)
Physics class XI (To be done in CW copy)

1. A satellite orbits the earth at a height 'R' from the surface. How much energy must be expended to rocket the satellite out of earth's gravitational influence?
2. Derive the expression for finding the escape velocity of the body.
Does it depend on the location (eg. different planets) from where it is projected?
3. One projectile after deviating from its path starts moving round the earth in a circular path radius equal to nine times the radius of earth R. What will be its time period?
4. Explain using diagram of stress-strain curve for a metal wire which is gradually being loaded.
5. A rigid bar of mass M is supported symmetrically by three wires each of length L. Those at each end are one of copper and the middle one is of iron. The ratio of their diameters, if each is to have the same tension, is equal to:
 (a) $\frac{Y_{\text{copper}}}{Y_{\text{iron}}}$ (b) $\sqrt{\frac{Y_{\text{iron}}}{Y_{\text{copper}}}}$ (c) $\frac{Y_{\text{iron}}^2}{Y_{\text{copper}}^2}$ (d) $\frac{Y_{\text{iron}}}{Y_{\text{copper}}}$
6. Young's modulus is a measure of a solid's stiffness or resistance to elastic deformation under load. It relates stress to strain along an axis or line. The basic principle is that a material undergoes elastic deformation when it is compressed or extended, returning to its original shape when the total load is removed. More deformation occurs in a flexible material compared to that of a stiff material. The Young's modulus of a wire is a measure of its stiffness and is defined as the ratio of stress/strain.
 (a) If there are two wires of the same material and the same length while the diameter of the second wire is two times the diameter of the first wire, then what will be ratio of extension produced in the wire by applying the same load?
 (b) Young's modulus of a wire of length L and radius r is Y. If the length is reduced to half, what will be its Young's modulus?
 (c) If we can so easily stretch rubber and most elastic bands are made of rubber then why can't we use rubber for the manufacturing of springs?

हिंदी

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 7-8 वाक्यों में लिखिए।
- 2: "पतंग" कविता का सारांश 5-6 वाक्य में लिखिए।
- 3: "कैमरे में बंद अपाहिज" पद्यांश पढ़ें, मुख्य विचार 6-8 वाक्य 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 6-7 वाक्य 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 (पूरक गद्य)

- 1: "सिल्वर वेडिंग" के मुख्य पात्रों और कथानक का 8-10 वाक्यों में संक्षिप्त परिचय दीजिए।
- 2: 'जूझ' पाठ के संदेश को अपने शब्दों में लिखो। 10 पंक्ति

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

Dear Students

Do the following work in Autumn Break: -

1. Read the chapters

(A) On the Face of it

(B) Memories of Childhood

(C) Going Places 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!

HISTORY

- locate the Harappan sites and centre of 1857 revolt on Indian map.
- solve 2 sample paper and complete practical file.

GEOGRAPHY Locate in political map of India 1.ports 2.sea ports 3.railway zones 4.state capitals 5. Main mines ,atomic power stations
Solve 1 sample paper and complete practical file.

POL SC

1. Case Study of International Organisation

Choose any one: IMF / World Bank / WTO / EU / ASEAN / BRICS.

Prepare a detailed case study on its origin, role, achievements, criticisms, and India's participation.

2. Prepare a poster / infographic on "India's role in UN Peacekeeping Missions."

3. Topic: Daily Current Events of National and International Importance

- a. Collect and record one national and one international event per day.(With picture)
- b. Include date, event, source, significance, and link to political theory or syllabus topic.
- c . Prepare a weekly summary at the end of week.

MATHS

 AUTMNB BREAK HOMEWORK CLASS XII MATH (1).docx

ACCOUNTANCY

1. Specific project 1&2 in accountancy
2. Preparation of Pre-board 2
3. Solve paper-

https://cbseacademic.nic.in/web_material/SQP/ClassXII_2024_25/Accountancy-SQP.pdf

BST

1. Project work on Marketing Management
2. Revision of entire syllabus
3. Solve paper-

https://cbseacademic.nic.in/web_material/SQP/ClassXII_2024_25/BusinessStudies-SQP.pdf

ECONOMICS

1. Complete the project work of the Economics and submit after the autumn break.
 - a) AD-AS Equilibrium in short run
 - b) Agriculture in 1950-90
 - c) Concept of National Income and its aggregate.
 - d) National Income and its method to calculate.
2. Practice CBSE sample paper 2025-26.
3. Learn all chapters completed till 25/09/2025.

COMPUTER SCIENCE

1. Write a method COUNTLINES() in Python to read lines from text file 'TESTFILE.TXT' and display the number of lines which are not starting with any vowel.
2. Write a function ETCOUNT() in Python, which should read each character of a text file "TESTFILE.TXT" and then count and display the count of occurrence of alphabets E and T individually (including small cases e and t too).
3. Write a function definition for CountHer() in python to read the content of a text file diary.txt and counts the words His and Her(not case sensitive)
4. Write a function EUCount() in python which should read each character of a text file. "IMP.TXT", should count and display the occurrence of alphabets E and U (including small cases e and u too).
5. Write function definition for WORD4CHAR() in python to read the content of a text file FUN.TXT and display all those words, which has four characters in it.
6. Solve the sample papers shared in the group.
7. Complete CBSE project
8. Complete CBSE practical file

Write the output of SQL queries (a) to (d) based on the table
VACCINATION_DATA given below :

TABLE : VACCINATION_DATA

VID	Name	Age	Dose1	Dose2	City
101	Jenny	27	2021-12-25	2022-01-31	Delhi
102	Harjot	55	2021-07-14	2021-10-14	Mumbai
103	Srikanth	43	2021-04-18	2021-07-20	Delhi
104	Gazala	75	2021-07-31	NULL	Kolkata
105	Shiksha	32	2022-01-01	NULL	Mumbai

(a) SELECT Name, Age FROM VACCINATION_DATA

WHERE Dose2 IS NOT NULL AND Age > 40;

(b) SELECT City, COUNT(*) FROM VACCINATION_DATA GROUP BY City;

(c) SELECT DISTINCT City FROM VACCINATION_DATA;

(d) SELECT MAX (Dose1), MIN (Dose2) FROM VACCINATION_DATA;

9.

10. Completion of practical file

11. Completion of Project report.

BIOLOGY

1. Complete the given worksheet on 'Biotechnology' and 'Organisms and Population'.
2. Prepare Investigatory Project on any given biological topic.
3. Complete the remaining practicals on spotting experiments.

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) $\text{CH}_2\text{FCH}_2\text{CH}_2\text{COOH}$ or $\text{CH}_3\text{CHFCH}_2\text{COOH}$
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 $\text{S}_\text{N}2$ reaction.
 - iii) pentan-1-ol using a suitable alkyl halide?
12. How are the following conversions carried out?
- (i) Propene $\rightarrow$ Propan-2-ol
 - ii) Benzyl chloride $\rightarrow$ Benzyl alcohol
 - iii) Ethyl magnesium chloride $\rightarrow$ 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-Methyl aniline.

18. Why does electrophilic substitutions in aromatic amines takes 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 donot undergo Acylation reactions

PHYSICS

1. MAKING INVESTIGATORY PROJECT ON ANY ONE TOPIC ASSIGNED IN CLASS.
2. TO COMPLETE PRACTICAL FILE OF PHYSICS.

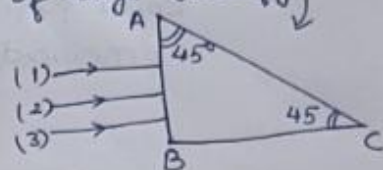
Autumn Break Holidays Homework

Class - XII PHYSICS

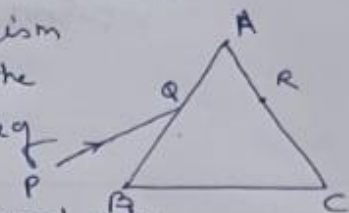
1. Draw diagram of compound microscope for formation of image at least distance of distinct vision and when image is formed at infinity. Derive expression for its total magnification in both cases.
Why objectives and eyepiece must have short focal length.

2. Draw a ray diagram showing the image formation of a distant object by a refracting telescope.
Define magnifying power and write two important factors considered to increase the magnifying power.
Describe briefly the two main limitations and explain how far these can be minimised in a reflecting telescope.

Three rays (1, 2, 3) of different colours fall normally on one of the sides of an isosceles right angled prism as shown. The refractive index of prism for these rays is 1.39, 1.47 and 1.52. Find which of these rays get internally reflected and which get only refracted from AC. Trace the path of rays. Justify.



- 4) A ray PQ incident on the face AB of a prism ABC, emerges from the face AC such that $AQ = AR$. Draw the ray diagram showing the passage of the ray through the prism. If the angle of the prism is 60° and refractive index of material of the prism is $\sqrt{3}$, determine the value of angle of incidence and angle of deviation.



- 5) What type of extrinsic semiconductor is formed when
(a) germanium is doped with indium?
(b) silicon is doped with bismuth?

- 6) Why are elemental dopant for silicon or germanium usually chosen from group 13 or group 15?

- 7) Explain the property of a p-n junction which makes it suitable for rectifying alternating voltages. Differentiate between a half wave and a full wave rectifier (any 3 points)

- 8) Describe briefly, with the help of a diagram, the role of the two important processes involved in the formation of p-n junction.

- 9) Draw V-I characteristics of p-n junction diode. Give reasons for
(a) Why is the current under reverse biasing almost independent of the applied potential upto a critical voltage?

- (b) Why does the reverse current show a sudden increase at the critical voltage?

- 10) With the help of circuit diagram, explain the working of a junction diode as a full wave rectifier. Draw its input and output waveforms. Which characteristics property makes the junction diode suitable for rectification?

