

SUMMER BREAK HOLIDAY HOMEWORK- (2026-27)
CLASS VI

HINDI	<p>प्रश्न 1 निम्नलिखित सभी विषयों पर लगभग 100-100 शब्दों में अनुच्छेद लिखिए-</p> <p>(1) गणतंत्र दिवस (2) विद्यार्थी जीवन में अनुशासन का महत्त्व</p> <p>(3) मेरा प्रिय त्योहार-दीपावली (4) विश्व योग दिवस का महत्त्व (21 जून)</p> <p>प्रश्न 2 अपने मित्र को जन्मदिन की बधाई देते हुए एक बधाई पत्र लिखिए।</p> <p>प्रश्न 3 विद्यालय के प्राचार्य को तीन दिन के अवकाश हेतु एक प्रार्थना पत्र लिखिए।</p> <p>प्रश्न 4 निम्नलिखित शब्दों के विलोम शब्द लिखिए-</p> <p style="text-align: center;">उचित, आदर, वीर, अंधकार, कोमल, सुखद, शत्रु, अस्त, आय, संयोग, एक, सरल, मानव, दिन, शाम, रंक</p> <p>प्रश्न 5 अपनी मल्हार पुस्तक में से कोई 4 कविताएँ लिखेंगे और याद भी करेंगे।</p> <p>प्रश्न 6 सामयिक परीक्षा (PT-1) के पाठ्यक्रम से संबंधित पाठों को पढ़ेंगे और याद भी करेंगे। (1 से 3 पाठ)</p> <p>प्रश्न-7 सामयिक परीक्षा (PT-1) में आने वाले पाठों की शिक्षार्थी डायरी भी बनाएंगे। (1 से 3 पाठ)</p> <p>नोट ये सभी कार्य हिंदी हॉलिडे होमवर्क कॉपी में करना है</p>
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ENGLISH	<p>Section A – Reading & Creativity</p> <p>1. Read and Enjoy Read any one fable or folk tale from your textbook carefully. Then write: Title of the story Name of the characters Moral of the story Your favourite part (5–6 lines) 🎨 Draw one scene from the story.</p> <p>2. Story Basket Activity Collect or listen to one folk tale told by your grandparents or parents. Write:</p>
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Name of the tale
 Place/region it belongs to
 Main message of the story
 ★ Add a small illustration.

Section B – Grammar Practice

3. Nouns
 Write:
 10 Proper Nouns
 10 Common Nouns
 5 Collective Nouns
 Then frame one sentence with each type of noun.

4. Pronouns
 Replace the underlined nouns with suitable pronouns.
 Example:
 Riya is reading a book. → She is reading a book.
 Do the following:
 Aman and Ravi are friends.
 My mother cooks food.
 The dog is barking loudly.
 The children are playing.
 Sita and I went to the market.

5. Verbs
 Write 15 action words (verbs) and use any 10 in meaningful sentences.
 Example: run, jump, sing, dance, write etc.

6. Phrases
 Write:
 5 Noun Phrases
 5 Verb Phrases
 Then use any 5 phrases in sentences.
 Example:
 a beautiful garden
 is playing football

Section C – Fun Learning Activities

7. Vocabulary Tree
 Make a colourful “Vocabulary Tree” on an A4 sheet.
 Write:
 10 new words from Unit 1
 Their meanings
 One sentence each

8. Comic Strip Activity
 Convert any one fable into a comic strip using pictures and dialogues.
 ✍ Use at least 6 boxes.

Section D – Writing Skills

9. Moral Writing
 Write a short paragraph (80–100 words) on:
 “Why should we always speak the truth?”

10. My Holiday Diary
 Write 5 sentences daily for any three days during your holidays.
 You may include:
 What you did
 Where you went
 What you learned

Instructions
 Complete work neatly and on time.
 Use blue pen for writing and pencil for drawings.
 Decorate your work creatively.
 Revise grammar topics regularly.
 Read English storybooks during holidays.
 Happy Holidays!
 Learn • Read • Imagine • Create ✨

1. Fill in the blanks in the given pattern :
- (i) 2,4,6,8, , ,
- (ii) 3,5,7,9, ,
-
- (iii) 1,3,6,10, , ,
-
- (iv) 1,4,9,16, , ,
-
- (v) 1,2,3,5,8, ,
-
- (vi) 1,3,9,27, , ,
-

2. Expand the following pattern up to 10 numbers

- (a) $1 = 1$
 (b) $1 + 3 = 4$
 (c) $1 + 3 + 5 = 9$
 (d)
 (e)
 (f)
 (g)
 (h)
 (i)

3. Define the following : (a) Natural number (b) Whole number (c) Even number (d) Odd number (e) Prime number (f) Composite number (g) Triangular number (h) Regular Polygon (i) Virahanka number

4. Compare using $>$ $=$ $<$:

- (a) 34872 ___ 34900 (b) 87945 ___ 78945 (c) 724582 ___ 88899 (d) 206006 ___ 116116
 (e) 846470 ___ 847740 (f) 42358 ___ 423580 (g) 304560 ___ 345269 (h) 3045 ___ 3321
 (i) 97542 ___ 95724

5. Arrange the given numbers in ascending order.

- (a) 58,992; 59,228; 8,59,992; 1,54,992
 (b) 7,96,441; 8,96,441; 7,99,641; 8,59,821
 (c) 6,89,774; 6,78,940; 7,18,444; 5,68,710
 (d) 3,80,751; 3,36,547; 3,98,694; 3,26,880
 (e) 5,56,442; 5,26,452; 5,95,442; 5,34,561

6. Arrange the given numbers in descending order.

- (a) 71,800; 40,875; 72,984; 6,98,504
 (b) 8,63,019; 8,60,548; 8,65,881; 8,59,004
 (c) 6,30,062; 1,63,050; 8,39,035; 5,69,204
 (d) 3,80,651; 3,37,547; 3,90,694; 3,36,880
 (e) 8,56,422; 8,26,452; 8,95,442; 8,34,561

7. Use the given digits without repetition and make the greatest and smallest numbers.

- (a) 2, 8, 7, 4 (b) 9, 7, 4, 1 (c) 4, 7, 5, 0 (d) 1, 7, 6, 2 (e) 5, 4, 0, 3 (f) 3, 5, 8, 0, 1
8. Rewrite the following numbers placing comma (,) as per the Indian system:
 (i) 645367 (ii) 50301268 (iii) 436405 (iv) 3268431
 (v) 2414360

9. Write the following in figures.

- (i) Six million, four hundred and eleven thousand, two hundred and sixty
 (ii) Sixty-five million, one hundred and sixteen thousand, five hundred and five
 (iii) Six hundred thousand, two hundred and fifteen
 (iv) One hundred and sixteen million, One hundred and ten thousand, and thirty-nine
 (v) Fifty-five million, four hundred and sixty thousand, nine hundred and two

10. Make two magic squares with the help of numbers.

11. The following series follows a fixed pattern: 2, 3, 3, 4, 4, 4, 5, 5, 5, 6, ... If the pattern

	<p>continues, determine how many times the number 9 appears in the NEXT 20 terms.</p> <p>12. What will come in place of "?" in the given series?</p> <p>13. What will come in place of "?" in the given series?</p> <p>14. Make a Rangoli (Geometry art project) with the help of shapes, lines and angles.</p> <p>15. Draw a map of your Dream House and colour it.</p>
<p>SCIENCE</p>	<p>1. Why do boiled seeds fail to sprout?</p> <p>2. How is cactus adapted to survive in a desert?</p> <p>3. Name two ingredients in our food that are not obtained from plants or animals. Mention one source for each ingredient.</p> <p>4. How are camels living in hot desert differ from the camels living in cold desert?</p> <p>5. With the help of diagrams, tabulate the differences between a shrub and a tree, based on the properties of the stem.</p> <p>6. Look carefully at the plants shown in Fig. and identify their type. Are they herbs, shrubs or trees? Are they similar in shape? Which category has the biggest plants and which has the smallest?</p> <p>7. Mention one adaptation present in the following animals: (a) In camels to keep their bodies away from the heat of sand. (b) In frogs to enable them to swim. (c) In dolphins and whales to breathe in air when they swim near the surface of water.</p> <p>8. Tasty food is not always nutritious and nutritious food may not always be tasty to eat. Comment with examples.</p> <p>9. While using iodine in the laboratory, some drops of iodine fell on Paheli's socks and some fell on her teacher's saree. The drops of iodine on the saree turned blue black while their colour did not change on the socks. What can be the possible reason?</p> <p>10. Ravi and Sunny peeled some potatoes and cut them into small pieces. They washed and boiled them in water. They threw away the excess water and fried them in oil adding salt and spices. Although the potato dish tasted very good, its nutrient value was less. Suggest a method of cooking potatoes that will not lower the nutrients in them.</p> <p>11. Ronit avoids eating vegetables but likes to eat biscuits, noodles and white bread. He frequently complains of stomach ache and constipation. What are the food items that she should include in her diet to get rid of the problem? Give reason for your answer.</p> <p>12. Minerals and vitamins are needed in very small quantities by our body as compared to other</p>

	<p>components. Yet, they are an important part of a balanced diet. Explain the statement.</p> <p>13. Pick the odd one out and give reasons:</p> <p>(i) Jowar, Bajra, Ragi, Chana (ii) Kidney beans, Green gram, Soya bean, Rice</p> <p>14. A teacher says that good food may act as medicine. Ravi is curious about this statement and has some questions for his teacher. List at least two questions that he can ask.</p> <p>15. Reshma had trouble seeing things in dim light. The doctor tested her eyesight and prescribed a particular vitamin supplement. He also advised her to include a few food items in her diet.</p> <p>(i) Which deficiency disease is 'she' suffering from? (ii) Which food component may be lacking in her diet? (iii) Suggest some food items that she should include in her diet to overcome this problem (any four).</p> <p>16. Gourav got a fracture in his leg. His doctor aligned the bones and put on a plaster. The doctor also gave him calcium tablets.</p> <p>On the second visit, the doctor gave him Vitamin D syrup along with calcium tablets.</p> <p>Answer the following questions:</p> <p>(i) Why did the doctor give calcium tablets to Gourav? (ii) On the second visit, why did the doctor give Vitamin D syrup along with calcium tablets? (iii) What question arises in your mind about the choices made by the doctor in giving the medicines?</p> <p>17. Why are millets considered a healthy choice of food? Can eating just millets suffice for the nutritional requirements of the body? Discuss.</p> <p>18. 'Water does not provide nutrients, yet it is an important component of food. Why?</p>
SOCIAL SC.	<p>Do the below work in seperate notebook.</p> <p>Q.1 Difference between cardinal direction and intermediate direction.</p> <p>Q.2 Why is Earth called the "blue planet"?</p> <p>Q.3 What is map?</p> <p>Q.4 What is atlas?</p> <p>Q.5 What is Indian Standard Time (IST)?</p> <p>Q.6 What is International Date Line?</p> <p>Q.7 Who are geologists, and what do they study?</p> <p>Q.8 What is the fulform of BC and BCE.</p> <p>Q.9 Visit National Museum of India in New Delhi or any other Museum and wite down your experience in 20 lines.</p> <p>Q.10 On A4 sheet draw your family time line and you can mention your family's achievement with year on that time line also.</p> <p>Q.11 What are the major landforms? Explain of each.</p> <p>Q.12 On A4 sheet paste 10 pictures of some ancient monument and artefacts.</p>

	<p>A. Mark the following on a world map and paste it in your holiday home work notebook.</p> <p>1. Greenwich line (longitude)</p> <p>1. The Equator</p> <p>2. Atlantic Ocean</p> <p>3. The Indian Ocean</p> <p>4. Pacific Ocean</p> <p>5. Continents: Asia , Africa, North America, South America, Antarctica, Europe, Australia</p> <p>B. Mark the following on a Indian Political map: and paste it in your holiday home work notebook.</p> <p>1. All states and their capital.</p>
SANSKRIT	<p>1) धातु रूप पठ- लट् लकार, लृट् लकार</p> <p>2) शब्द रूप - बालक, बालिका</p> <p>3) संख्या- 1-20</p> <p>4) पाठ 1 और 2 संपूर्ण अभ्यास कार्य</p> <p>5) मेरा परिचय</p> <p>6) सरल संस्कृत में पांच वाक्य बनाये।</p> <p>7) पांच फल, फूल और</p> <p>पंछियों के नाम संस्कृत में लिखे व चित्र भी बनाये।</p>
COMPUTER	<p>Unit 1: Artificial Intelligence (AI)</p> <p>1. Short Answers:</p> <p>a) What is Artificial Intelligence (AI)? Explain in your own words.</p> <p>b) How is Artificial Intelligence different from Automation?</p> <p>c) What are the applications of AI? Where is it used in everyday life?</p> <p>d) How does AI work? What are the types of AI?</p> <p>Activities</p> <p>1. Make a chart or a 4–5 slide PowerPoint on the following:</p> <ul style="list-style-type: none"> • 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). <p>2. Draw or paste pictures to show how AI is used in daily life (optional but encouraged).</p> <p>Submission</p> <ul style="list-style-type: none"> • All answers in your notebook. • Activities on chart paper or as a PowerPoint.

SUMMER BREAK HOLIDAY HOMEWORK- (2026-27)

CLASS VII

<p>HINDI</p>	<p>प्रश्न 1 निम्नलिखित सभी विषयों पर लगभग 100-100 शब्दों में अनुच्छेद लिखिए-</p> <p>(1) स्वतंत्रता दिवस (15 अगस्त) (2) पर्यावरण प्रदूषण</p> <p>(3) मेरा प्रिय त्योहार-होली (4) विश्व योग दिवस का महत्त्व (21 जून)</p> <p>प्रश्न 2 अपने मित्र को नववर्ष की बधाई देते हुए एक बधाई पत्र लिखिए।</p> <p>प्रश्न 3 विद्यालय के प्राचार्य को स्थानांतरण प्रमाण-पत्र हेतु एक प्रार्थना पत्र लिखिए।</p> <p>प्रश्न 4 निम्नलिखित शब्दों के तीन-तीन पर्यायवाची शब्द लिखिए-</p> <p>सूर्य, पृथ्वी, समुद्र, राजा, फूल, पहाड़, अमृत, आकाश, अग्नि, गणेश, मित्र, वृक्ष, चंद्रमा, दिन, रात</p> <p>प्रश्न 5 सामयिक परीक्षा (PT-1) के पाठ्यक्रम से संबंधित पाठों को पढ़ेंगे और याद भी करेंगे। (1 से 3 पाठ)</p> <p>प्रश्न 6 अपनी मल्हार पुस्तक में से कोई 4 कविताएँ लिखेंगे और याद भी करेंगे।</p> <p>प्रश्न-7 सामयिक परीक्षा (PT-1) में आने वाले पाठों की शिक्षार्थी डायरी भी बनाएंगे। (1 से 3 पाठ)</p>
<p>ENGLISH</p>	<p>Summer break HHW (Class 7)- ENGLISH</p> <p>1. Read any one storybook of your choice. Write a Book Review (100–120 words) including: *Title and Author *Main characters *Summary of the story</p> <p>2. Writing Skills</p> <p>a)Write an essay on following topics: *My Favourite Holiday *Importance of Discipline in Student Life *A Visit to a Historical Place</p> <p>b) Write a notice for your school notice board about: Inter-house Debate Competition</p> <p>3. Grammar Practice</p> <p>a) Interrogatives - Frame 10 questions using: What, Why, When, Where, Who, How b) Prepositions - Fill in the blanks (write 10 sentences using correct prepositions) c) Adverbs - Write 10 sentences using different types of adverbs (time, manner, place) d) Modals- Write 10 sentences using: can, could, may, might, must, should</p> <p>4. Vocabulary - Write 10 Synonyms and 10 Antonyms with meanings and use each in a sentence.</p> <p>5. Literature Work - Read all the chapters from your English textbook (Unit 2). Write the summary of each chapter in about 100–120 words in your own words.</p> <p>6. Make a comic Strip on try again poem (conversation between spider and king)</p> <p>7. Creative Activity - Make a Grammar Chart on any one topic: (Prepositions / Adverbs / Modals) Use colours, examples, and illustrations.</p> <p>8. Newspaper Activity: Paste 5 notice cuttings from newspapers or magazines in your English notebook.</p> <p>9. Design a creative and colourful main title page/book cover based on the chapter “Animals, Birds and Dr. Dolittle” (Unit 2)</p>
<p>MATHS</p>	<p>Q.1. Fill in the blanks:</p> <p>(i) $(-5) + (-8) = (-8) + (\dots\dots\dots)$</p> <p>(ii) $-53 + \dots\dots\dots = -53$</p> <p>(iii) $17 + \dots\dots\dots = 0$</p>

(iv) $[13 + (-12)] + (\dots\dots\dots) = 13 + [(-12) + (-7)]$

(v) $(-4) + [15 + (-3)] = [-4 + 15] + \dots\dots\dots$

(vi) $\dots\dots\dots$ is the additive identity and $\dots\dots\dots$ is the multiplicative identity of integer

(vii) For any integer a ; $a \div 0$ is $\dots\dots\dots$

Q.2. Multiple Choice Questions:

(i) Smallest integer is:

- (a) 0 (b) - 1 (c) we cannot write (d) - 10000

(ii) Which of the following numbers is to the right of -3 on number line ?

- (a) -4 (b) -2 (c) -5 (d) -6

(iii) The number of integers between -2 and 2 is:

- (a) 5 (b) 4 (c) 3 (d) 2

(iv) Sum of two negative integers is always:

- (a) Positive (b) Negative (c) 0 (d) 1

(v) In addition and subtraction of the integers the sign of answer depends upon:

- (a) Smaller Number (b) Their Difference (c) Their Sum (d) Greater numerical value

(vi) Which of the following statement is false:

- (a) $-7 + (-6) = -13$ (b) $-5 + 1 = 4$ (c) $2 + (-1) = 1$ (d) $8 + (-9) = -1$

(vii) What will be the additive inverse of -1 ?

- (a) -2 (b) -1 (c) 0 (d) 1

Q.3.

Q.4. Write a pair of integers whose sum gives:

- (i) zero;
- (ii) a negative integer;
- (iii) an integer smaller than both the integers;
- (iv) an integer greater than both the integers;
- (v) an integer smaller than only one of the integers.

Q.5. Find each of the following products:

(a) $9 \times (-3) \times (-6)$

(b) $(-18) \times (-5) \times (-4)$

(c) $(-1) \times (-2) \times (-3) \times 4$

(d) $(-3) \times (-6) \times (-2) \times (-1)$

Q.6. Evaluate each of the following:

(i) $[(-36) \div 12] \div 3$

(ii) $[(-6) + 5] \div [(-2) + 1]$

Q.7. In a test (+5) marks are given for every correct answer and (-2) marks are given for every incorrect answer.

(i) Radhika answered all the questions and scored 30 marks though she got 10 correct answers.

(ii) Jay also answered all the questions and scored (-12) marks though he got 4 correct answers. How many incorrect answers had they attempted?

Q.8. An elevator descends into a mine shaft at the rate of 6 m/min. If the descent starts from 10 m above the ground level, how long will it take to reach - 350 m.

Q.9. Revise the properties of integers.

Q.10. Download and watch the movie “The man who knew Infinity”. Write the 10 things that you liked the most. Write two ideas which inspired you to study Mathematics.

SCIENCE	<p>SUMMER VACATION HOMEWORK CLASS VII SUB: SCIENCE Q1. Prepare a herbarium file by collecting three leaves each of any of the three categories of plants given below. (i) CEREALS (ii) Fruits (iii) Vegetables (iv) Spices</p>
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	<p>(v) Medicinal plants (vi) Ornamental plants (for your help: Herbarium is a storehouse of collected plant specimen) Q2. Select any five brands each of aerated soft drinks and fruit juices. Find out the nutrients content price advantages and disadvantages of each of them. Conclude with reasons what kind of drinks should be used. Q3. PROJECT: Healthy lifestyle. Activity 1: discuss with your parents and grandparents the way to lead a healthy life based on the discussion design a diet plan for the children of your age group with tips and suggestions to leader healthy life style. Activity 2: Fast food is not good for health Compose a story (150 to 200 words) with pictures and drawings with this message, where a girl or boy explain of to his/ her younger brother about the bad effect of eating fast food. Q4. Investigate the properties of various common household substances by testing their acidity or basicity using different indicators. Q5. Prepared the MDP on allotted topic with beautiful pictures and figures and submit the file.</p>
SOCIAL SC.	<p>Holiday Homewok Class-7th</p> <p><u>Chapter- Geographical diversity of India</u></p> <p>1) Activity- create a scrapbook showing India diversity. (a) Relief features- mountain, plateau, desert, islands. (b) climate variation. (c) vegetation type. (d) cultural diversity(food, dress, festivals). INCLUDE: pictures from magazine/newspaper/handmade. Short description(2-3 lines of each)</p> <p>2) On an outline map of India, mark: (a) Himalayas. (b) Thar desert (c) coastal plains (d) Deccan plateau (e) Ganga river</p> <p><u>Chapter- New beginning : cities and states</u> Answer briefly— 1. Why did new cities develop during this period? 2. How did trade influence growth of towns? 3. What role did rivers play in settlement development?</p>
SANSKRIT	<p>1) धातु रूप -गम्, कृ व पठ् लट् लृट्, लोट् लकार 2) शब्द रूप- बालक, राम बालिका, लता, अस्मद्, , युष्मद् 3) संख्या-1-50 4) मम दिनचर्या पर पांच वाक्य संस्कृत मे 5) पाठ -1 और 2 का संपूर्ण अभ्यास कार्य 6) सरल संस्कृत मे पांच वाक्य बनाये 7) एक घडी बनाये और उसका समय संस्कृत मे लिखे</p>

	जैसे- सपाद एक वादनम, त्रि वादनम
COMPUTER	<p>Navigating AI Domains and Emerging Frontiers</p> <p>1. Short Answers:</p> <p>a) What is Natural Language Processing (NLP)? Explain in simple words.</p> <p>b) Write three real-life applications of NLP (example: Google Translate).</p> <p>c) What is Statistical Data? Why is it important in AI?</p> <p>d) Write three examples of Statistical Data use (example: health records, weather prediction).</p> <p>2. Activity:</p> <p>Make a chart with two columns:</p> <ul style="list-style-type: none"> • Column 1: “AI Domain” (NLP / Statistical Data) • Column 2: “Applications” (at least three examples for each domain). <p>Artificial Intelligence – Exploring Innovations and Societal Sustainability</p> <p>1. Short Answers:</p> <p>a) What is Sustainability? Why is it important for society?</p> <p>b) Write the names of three Sustainable Development Goals (SDGs).</p> <p>c) What is meant by System Thinking?</p> <p>d) What is a System Map? What is its purpose?</p> <p>2. Activity:</p> <p>Pick one real-world problem (for example: waste management, traffic control, or water saving).</p> <p>Draw a simple system map showing:</p> <ul style="list-style-type: none"> • Main problem in the centre • Causes and effects around it • How AI could help make it more sustainable <p>Submission</p> <ul style="list-style-type: none"> • All answers in your notebook. • Activities on chart paper or as a PowerPoint (4–5 slides).

SUMMER BREAK HOLIDAY HOMEWORK- (2026-27)
CLASS VIII

HINDI	<p>ग्रीष्मकालीन छुट्टियों (Summer Vacation) का गृहकार्य :- 2026-27</p> <p>कक्षा - 8 विषय - हिन्दी</p> <p>प्रश्न 1 निम्नलिखित सभी विषयों पर लगभग 100-100 शब्दों में अनुच्छेद लिखिए-</p> <p>(1) क्रिसमस दिवस (25 दिसम्बर) (2) मेरा प्रिय पालतू जानवर-तोता (3) शिक्षक दिवस (5 सितंबर) (4) विश्व योग दिवस का महत्त्व (21 जून)</p> <p>प्रश्न 2 अपने मित्र को कक्षा में प्रथम आने पर बधाई देते हुए एक पत्र लिखिए।</p> <p>प्रश्न 3 विद्यालय के प्राचार्य को चरित्र प्रमाण-पत्र प्राप्त करने हेतु एक प्रार्थना पत्र लिखिए।</p> <p>प्रश्न 4 निम्नलिखित शब्दों के वचन बदलकर लिखिए-</p> <p style="text-align: center;">संतरा, पपीता, गमला, ताला, कपड़ा, रास्ता, छाता, बछड़ा, बकरा, साला, भानजा, भतीजा, रात, कहानी, दरी</p> <p>प्रश्न 5 सामयिक परीक्षा (PT-1) के पाठ्यक्रम से संबंधित पाठों को पढ़ेंगे और याद भी करेंगे। (1 से 3 पाठ)</p> <p>प्रश्न 6 अपनी मल्हार पुस्तक में से कोई 4 कविताएँ लिखेंगे और याद भी करेंगे।</p> <p>प्रश्न-7 सामयिक परीक्षा (PT-1) में आने वाले पाठों की शिक्षार्थी डायरी भी बनाएंगे। (1 से 3 पाठ)</p> <p>प्रश्न 8 1 से 100 तक गिनती लिखें और याद करें।</p> <p>प्रश्न 9 संज्ञा, सर्वनाम, क्रिया, विशेषण और क्रिया विशेषण दोहराएं।</p> <p>नोट-सभी विद्यार्थी ग्रीष्मकालीन छुट्टियों (Summer Vacation) के गृहकार्य को हिन्दी विषय के गृहकार्य काँपी में करेंगे।</p>
ENGLISH	<p>SUMMER BREAK HHW (CLASS 8- ENGLISH)</p> <p>1. Read all the chapters from Unit 1 carefully and learn new words with meanings. Write 20 New words from the chapters and frame meaningful sentences. Also prepare Unit 1 for Periodic Test. 1</p> <p>2. Write a character sketch of "Major Somnath Sharma"</p> <p>3. Read the chapters of Unit 2 and Write diary entries imagining yourself as: Major Somnath Sharma during the battle OR The child from Somebody's Mother</p> <p>4. Grammar Practice: Make flash cards (A4 sized sheet) showing New Vocabulary words from Unit 2 (any one chapter)</p> <p>5. Prepare a colourful poster/mind map on any one topic: * Wisdom shown in "Wisdom Paves the way". * Bravery shown in A Tale of Valour</p> <p>6. Write 10 synonyms and 10 antonyms from the chapters covered in Unit 1 and Unit 2.</p> <p>7. Prepare a 2-minute presentation on: "The importance of wisdom and kindness in life" OR "Why soldiers are real heroes"</p> <p>8. Book Review: Read any English storybook of your choice and write a short review mentioning: Title, author, favourite character and Moral/message of the story.</p>

	<p>9. Creative Art & Language Task: Design a comic strip/illustrated scene from: "A Concrete Example" or "Wit that Won hearts"</p>
<p>MATHS</p>	<ol style="list-style-type: none"> 1. Writ the Square of the numbers from 1 to 50 . 2. Writ the Cube of the numbers from 1 to 25 . 3. Find square root of following numbers by Repeated subtraction method 36,100,225 and 400 4. Find square root of following numbers by Prime factorization method .144,225,256.441 and 676. 5. Find cube root of following numbers by Prime factorization method . 64,1000,512,729 and 1728 6.. Find the smallest square number that is divisible by each of the following numbers: 4, 9, and 10. 7.How many numbers lie between the squares of the following numbers? (i) 16 and 17 (ii) 99 and 100 8.State true or false. Explain your reasoning. (i) The cube of any odd number is even. (ii) There is no perfect cube that ends with 8. (iii) The cube of a 2-digit number may be a 3-digit number. (iv) The cube of a 2-digit number may have seven or more digits. (v) Cube numbers have an odd number of factors. 9. Make magic square of 5 x 5 from 1 to 25 numbers. 10. Make magic square of 7 x 7 from 1 to 49 numbers. 11. Draw different types of quadrilaterals and write its properties . 12. Write 20 Sentence about great Mathematician "Aryabhata" and "S. Ramanujan"
<p>SCIENCE</p>	<p style="text-align: center;">PM SHRI KV AGCR COLONY, SHIFT II HOLIDAY HOMEWORK (SESSION: 2026-27)</p> <p style="text-align: center;">CLASS: VIII SUBJECT: SCIENCE</p> <p>1.Read the following case-based questions and write the answers in your homework note-book:</p> <p>(i) Vineeta is a 12-year-old girl who prefers eating junk food like pizza, burger, chips etc. She rarely exercises and spends most of the time watching TV. Recently, she has been facing feeling tired and often falls sick?</p> <ol style="list-style-type: none"> a. What could be the reasons behind Vineeta falling sick frequently? b. Suggest three ways Vineeta should make to improve her health.

- c. What role does physical activity play in maintaining good health?
2. In a village, many people started suffering from stomach pain and diarrhoea. It was found that they were drinking water from an open well without filtering or boiling it.
- What type of disease is likely affecting the villagers?
 - How is the disease spreading?
 - What preventive measures should be taken to avoid such diseases?
 - Name any two water-borne diseases.
3. Rahul is a bright student but nowadays he has been feeling stressed due to exams. He is unable to sleep properly and avoids talking to his friends.
- Which aspect of health is being affected in Rahul's case?
 - What are the symptoms showing poor mental health?
 - Suggest ways Rahul can manage his stress.
 - Why is mental health as important as physical health?
4. Rupali took two glasses- one with hot water and one with cold water and added equal amounts of sugar to both. She stirred both and observed that sugar dissolved faster in hot water.
- What could be the aim of Rupali's experiment?
 - Identify the independent and dependent variables.
 - Why is it important for Rupali to take the same amount of sugar in both glasses?
 - What conclusion can Rupali draw?
 - Have you heard about saturated solution? How does the amount of sugar affect the rate of solubility in water?
 - Name one more factor that could affect the rate of solubility.
5. Two sets of seeds were placed in different conditions. In condition A, seeds were given water and kept in a warm place, while in condition B, seeds were kept dry. It was observed that seeds kept in condition A only germinated.
- What conditions are necessary for seed germination?
 - What hypothesis can be formed from this experiment?
 - Name the changing variable in this case.
 - Why did the seeds not germinate under condition B?
6. A baker added yeast to dough and kept it in a warm place. After some time, the dough rose and became soft.
- What do you think; why did the dough rise?
 - Which gas was released during this process?
 - Why did the baker keep the dough in warm place?
7. Riya received a vaccine injection to protect her from a disease. Her parents

explained that it helps her body fight the infections.

- What is a vaccine?
- How does vaccination protect us from diseases?
- Name few diseases that can be prevented by vaccination.

8. Sumona watched her mother putting more salt and oil while preparing pickles. She wanted to know the actual reason behind this and asked her mother regarding that.

- What do you think; how do salt and oil help in preserving food?
- What is food preservation? Name two other methods of food preservation.
- What happens if food is not preserved properly?

9. Vikram's mother added a small amount of curd to warm milk and left it overnight. The next morning, the milk had turned into curd.

- Name the process and the micro-organism involved in converting milk into curd.
- Why was warm milk used in this process?
- What will happen if the milk is kept in a cold place?
- Is this an example of a useful or harmful microorganism?

10. Avinash had a bacterial infection, and the doctor prescribed antibiotics for 5 days. He started feeling better after 2 days, so he stopped taking the medicine. After a week, his infection returned, but this time the same antibiotic did not work effectively.

- Why did Avinash's infection return after stopping the medicine early?
- What do you mean by antibiotic resistance?
- How did stopping the antibiotic course early contribute to resistance?
- What should Avinash have done to avoid this situation?
- Why is it important to take antibiotics only when prescribed by a doctor?
- Suggest how can antibiotic resistance be prevented.

11. Mention the contribution of the following scientists in the field of science:

a. Robert Hooke	b. Anand Mohan Chakrabarty	c. Kamal Ranadive
d. Maharaj Kishan Bhan	e. Alexander Fleming	f. Edward Jenner

12. Complete the answers of the given questions in NCERT Exercise of CH.3 Health: The Ultimate Treasure.

13. Read the CH.4-Electricity: Magnetic and Heating Effects. Learn the answers of CH.1 to CH.3.

14. Make a 'Green Pledge Card' mentioning at least 5 promises you will follow to protect the environment.

15. Write a paragraph on the topic 'An Environmental Problem I Care About'. Based on your paragraph, create a crossword puzzle using key terms like pollution, recycle

etc. and write clues for each. (3 DOWN & 3 ACROSS)

16. Think and write an innovative idea for nomination in INSPIRE MANAK AWARD or NCSC 2026(NATIONAL CHILDREN SCIENCE CONGRESS).

17. **MDP:** This activity is to be done in separate file.

i)Conduct a small survey of 5-10 people. Ask questions like:

- a. How many meals do you take daily?
- b. Do you include fruits/vegetables in your diet?
- c. How often do you exercise?

Present your data in a table and pie/bar graph.

ii) Write a paragraph on: **Importance of a Balanced diet for Good Health.**

iii) Make a colorful poster on: Stay Fit, Stay Healthy **OR** Say No to Germs.

iv) Write 3-5 slogans to spread awareness about health and hygiene.

SOCIAL SC.

HOLIDAY HOMEWORK SUMMER VACATION

CLASS -8 SUBJECT- SOCIAL SCIENCE

Map Work

(a)On an outline map of India:

Mark and label major soil types:

Alluvial Soil

Black Soil

Red Soil

Laterite Soil

Desert Soil

(b)Select any two natural resources. Gather information about their availability across different parts of India. Mark them on a map.

Paste both maps in your notebook

2.Activity

- Make a list of 10 daily-use items
- Classify them into:Natural resources or manmade resources

- Prepare a timeline including:
- Delhi Sultanate
- Mughal period (any 2 rulers)
- Paste pictures of 5 Indian Entrepreneurs that have achieved great success. (Write about their story of success)
- Make 2 artefacts depicting Sikkim Culture (Example: Doll,Ornaments, Food, Mask, Painting, Costumes Etc.)

3. Innovative Practice

Young Startup Challenge”

Each student has to imagine themselves as a young entrepreneur and create a unique startup idea.

Task:

Prepare a **PowerPoint Presentation (PPT)** on your startup idea which will be presented in class after the holidays.

Your PPT should include:

1. Title Slide (Startup Name & Student Name)
2. Problem you identified
3. Your solution/product/service
4. Target customers
5. Logo and slogan/tagline
6. Estimated cost and selling price
7. Marketing/advertisement ideas
8. Why your startup is unique
9. Conclusion

Instructions:

- . The activity must be done individually.
- . PPT should be creative, colourful, and informative.
- . Add relevant pictures/designs wherever required.
- . Students should be ready to explain their startup idea during the class presentation.
- . Original and practical ideas will be appreciated.

	<p>Submission:</p> <p>Students must bring the PPT presentation after the holidays for classroom presentation.</p> <p>4. Write answers</p> <ol style="list-style-type: none"> 1.What is a resource? What are the criteria for any substance to become a resource? 2.What led to the groundwater crisis in Punjab, and what are its effects? 3.What is Vrikshayurveda, and what agricultural practices does it promote? 4.What were the outcomes of Sikkim’s transition to organic farming? 5.Describe the rise and fall of Delhi Sultanate. 6. What were the contributions of regional kingdoms like the Marathas,Ahoms and Rajputs during the mediaeval period? 7.Mention the reforms of Akbar for introducing good governance. <p>Learn and Revise all the completed chapters.Complete your notebook also.</p>
SANSKRIT	<ol style="list-style-type: none"> 1)धातुरूप - पठ्, खाद्, सेव् 2) शब्दरूप- बालक, बालिका, अस्मद्, युष्मद् 3) संख्या- 1से 50 4) मम दिनचर्या पर पांच वाक्य संस्कृत में 5) पाठ 1 और 2 का सम्पूर्ण अभ्यास कार्य 6) सुभाषितानि या भागवद गीता के पांच श्लोक और उनके अर्थ लिखो। 7) पांच वृक्षों के नाम लिखो व उनका चित्र बनाओ। और उनसे होने वाले लाभ सरल संस्कृत मे लिखो।
COMPUTER	<p>Part A – Short Answers</p> <p>Answer these in your notebook:</p> <ol style="list-style-type: none"> 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

	<p>following traffic rules).</p> <p>Part B – Activity</p> <ol style="list-style-type: none">1. Pick one AI example you know (like voice assistant Alexa, Google Maps, YouTube recommendations).2. Write in a small table:<ul style="list-style-type: none">• 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:<ul style="list-style-type: none">• 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?”). <p>Submission</p> <ul style="list-style-type: none">• Part A – in notebook• Part B – slides or chart paper

SUMMER BREAK HOLIDAY HOMEWORK- (2026-27)
CLASS IX

HINDI	<p style="text-align: center;">ग्रीष्मकालीन छुट्टियों (Summer Vacation) का गृहकार्य :- 2026-27</p> <p style="text-align: center;">कक्षा – 9 अ+ब विषय – हिन्दी</p> <p>प्रश्न 1 उपसर्ग और प्रत्यय की परिभाषा बताते हुए उनमें अन्तर उदाहरण सहित समझाइए।</p> <p>प्रश्न 2 संज्ञा, सर्वनाम, विशेषण और क्रिया की परिभाषा बताते हुए उसके भेद उदाहरण सहित समझाइए।</p> <p>प्रश्न 3 वाक्य की परिभाषा बताते हुए अर्थ के आधार पर उसके भेद व दो-दो उदाहरण लिखकर समझाइए।</p> <p>प्रश्न 4 अलंकार की परिभाषा बताते हुए अनुप्रास, यमक और श्लेष अलंकार के बारे में बताते हुए दो-दो उदाहरण लिखकर समझाइए।</p> <p>प्रश्न 5 अपने मित्र को निबंध प्रतियोगिता में प्रथम आने पर बधाई देते हुए एक पत्र लिखिए।</p> <p>प्रश्न 6 विद्यालय के प्राचार्य को खेल सामग्री उपलब्ध कराने हेतु एक प्रार्थना पत्र लिखिए।</p> <p>प्रश्न 7 बस यात्रा के दौरान दो मित्रों (राम व श्याम) के बीच की गई बातचीत को 80 शब्दों में एक संवाद लिखिए।</p> <p>प्रश्न 8 निम्नलिखित सभी विषयों पर संकेत बिंदुओं के आधार पर लगभग 120-120 शब्दों में अनुच्छेद लिखिए :</p> <p>(i) साइबर सुरक्षा : जागरूकता ही समाधान</p> <p style="text-align: center;">*साइबर सुरक्षा का अर्थ *वर्तमान में चर्चा का कारण *जागरूकता का प्रभाव</p> <p>उत्तर- *साइबर सुरक्षा का अर्थ – कंप्यूटर सर्वर, मोबाइल डिवाइस, नेटवर्क और डेटा को डिजिटल हमलों चोरी से बचाने की तकनीक को साइबर सुरक्षा कहते हैं। यह संवेदनशील जानकारी को सुरक्षित रखने साइबर अपराधों को रोकने और व्यावसायिक कार्यों को निर्बाध रूप से चालू रखने के लिए उपयोग की जाने वाली एक प्रक्रिया है, जिसमें फायरवॉल और एंटी वायरस जैसी प्रौद्योगिकियां शामिल हैं।</p> <p>*वर्तमान में चर्चा का कारण - वर्तमान में भारत और विश्व में चर्चा के प्रमुख कारणों में साइबर हमलों की बढ़ती घटनाएं प्रामाणिक क्षेत्रों में बुनियादी सुविधाओं का अभाव और सतत विकास पर केंद्रित पर्यावरणीय मुद्दे शामिल हैं। इसके अतिरिक्त बढ़ती जनसंख्या द्वारा संसाधनों पर दबाव भ्रष्टाचार और तकनीकी विकास से उत्पन्न चुनौतियां भी प्रमुख विमर्श के विषय हैं।</p> <p>*जागरूकता का प्रभाव - साइबर जागरूकता डिजिटल दुनिया में व्यक्तिगत डेटा वित्तीय जानकारी और पहचान को सुरक्षित रखने का एक महत्वपूर्ण जीवन कौशल है। यह लोगों को फिशिंग स्कैम और मैलवेयर जैसे खतरों की पहचान कर मजबूत पासवर्ड और सुरक्षित ब्राउजिंग के माध्यम से साइबर अपराधों को रोकने व जोखिम कम करने में सक्षम बनाती है।</p> <p>(ii) स्वस्थ जीवन-शैली - *स्वस्थ जीवन-शैली की आवश्यकता</p> <p style="text-align: center;">*स्वस्थ आदतें जिनका पालन किया जाना चाहिए *स्वस्थ जीवन-शैली के लाभ</p> <p>उत्तर- *स्वस्थ जीवन-शैली की आवश्यकता - स्वस्थ जीवन-शैली का अर्थ शारीरिक, मानसिक और भावनात्मक रूप से संतुलित जीवन जीना है। आज के तनावपूर्ण समय में पुरानी बीमारियों से बचने उच्च ऊर्जा स्तर बनाए रखने और मानसिक शांति के लिए स्वस्थ जीवन-शैली अत्यंत आवश्यक है।</p> <p>*स्वस्थ आदतें जिनका पालन किया जाना चाहिए - स्वस्थ रहने के लिए पौष्टिक व संतुलित आहार, प्रतिदिन 30-40 मिनट व्यायाम/योग, पर्याप्त (7-8 घंटे) नींद और खूब पानी पीना सबसे जरूरी है। इसके साथ ही सुबह जल्दी उठना धूपपान/शराब से बचना सकारात्मक सोच रखना और तनावमुक्त रहना भी शरीर को स्वस्थ और मन को शांत रखने के लिए अत्यंत आवश्यक आदतें हैं।</p> <p>*स्वस्थ जीवन-शैली के लाभ - स्वस्थ जीवन-शैली अपनाने से न केवल मोटापा, मधुमेह, हृदय रोग और कैंसर जैसी गंभीर बीमारियों का खतरा कम होता है, बल्कि यह मानसिक स्वास्थ्य में सुधार ऊर्जा स्तर में वृद्धि, रोग प्रतिरोधक क्षमता बढ़ाने और मानसिक शांति पाने में भी मदद करती है। यह एक खुशहाल लंबा और सक्रिय जीवन जीने की नींव है।</p> <p>(iii) एक यादगार पारिवारिक अवकाश –</p> <p style="text-align: center;">*कैसे मनाया? *यादगार क्यों है? * पारिवारिक अवकाश का महत्त्व</p> <p>उत्तर- पारिवारिक अवकाश - पारिवारिक अवकाश रिश्तों को मजबूत करती हैं, सार्थक बातचीत को बढ़ावा देती हैं और बच्चों को कक्षा से बाहर भी सीखने में मदद करती हैं। साथ में यात्रा करने से परिवारों को रोजमर्रा की जिंदगी से दूर होकर एक-दूसरे के साथ फिर से जुड़ने का मौका मिलता है।</p> <p>*यादगार क्यों है? - पारिवारिक अवकाश इसलिए यादगार होते हैं क्योंकि वे रोजमर्रा की भागदौड़ से हटकर बच्चों और बड़ों को एक-दूसरे के साथ गुणवत्तापूर्ण समय बिताने भावनात्मक जुड़ाव मजबूत करने और तनाव मुक्त होकर नई यादें बनाने का अवसर देते हैं। यह बच्चों के विकास बेहतर संचार और पारिवारिक एकता के लिए अत्यंत महत्वपूर्ण है।</p> <p>* पारिवारिक अवकाश का महत्त्व - पारिवारिक अवकाश का महत्त्व मानसिक स्वास्थ्य सुधारने रिश्तों को मजबूत करने और परिवार की जरूरतों को प्राथमिकता देने में बहुत अधिक है। यह कार्य-जीवन संतुलन सुनिश्चित करता है, तनाव को कम करता है, उत्पादकता बढ़ाता है और आर्थिक सुरक्षा प्रदान करता है।</p> <p style="text-align: center;">नोट-सभी विद्यार्थी ग्रीष्मकालीन छुट्टियों (Summer Vacation) के गृहकार्य को हिन्दी विषय के गृहकार्य के रजिस्टर में करेंगे।</p>
ENGLISH	<p style="text-align: center;">GENERAL INSTRUCTIONS Do all the work in neat and legible handwriting.</p>

Use a separate notebook for holiday homework.
 Decorate the first page beautifully.
 Submit the homework on the reopening day.
 Revise all the completed syllabus regularly.
 Read English newspaper/articles daily for 15 minutes.

SECTION A : LITERATURE
 Chapter: How I Taught My Grandmother to Read
 Write the summary of the chapter in about 120 words.
 Write the character sketch of Grandmother.
 What values do you learn from the story? (80 words)
 Find and write meanings of 10 difficult words from the chapter.
 Make 5 sentences using any five new words.

Poem: Bharat Our Land
 Learn and write the poem neatly.
 Write the central idea of the poem in 100 words.
 Find two poetic devices used in the poem.
 Write any four lines of the poem that you liked most and explain why.
 Draw and colour a beautiful picture based on the poem.

SECTION B : WRITING SKILLS
 Letter Writing
 Write a letter to your friend inviting him/her to spend summer vacation with you.
 Write a letter to the Principal requesting extra classes for Mathematics.
 Write a letter to your younger brother advising him to use mobile wisely.

SECTION C : GRAMMAR
 Tenses
 Write definitions and examples of all 12 tenses.
 Make 2 sentences of each tense.

Determiners
 Write types of determiners with examples.
 Fill in the blanks using suitable determiners (10 examples).

Modals
 Write uses of can, could, may, might, should, must, would.
 Make one sentence of each modal.

SECTION D : CREATIVE TASK
 Make a colourful chart on Tenses or Modals.
 Read one English storybook and write its review in 100 words.

MATHS

Chapter 1: Orienting Yourself – The Use of Coordinates

1. Draw a Cartesian plane and mark the points: A(3,4), B(-2,5), C(-4,-3), D(5,-2). Write the quadrant of each point.
2. Plot the points P(2,3), Q(2,-3), R(-2,-3), and S(-2,3). Join them and identify the figure formed.
3. Find the distance between the following points:
 - (a) (2,3) and (8,3)
 - (b) (-4,5) and (-4,-2)
4. Find the distance between A(1,2) and B(5,5) using the distance formula.
5. State whether the following points lie on the same straight line:
 A(1,1), B(2,2), C(3,3)
6. Prepare a colourful map of your room/home using coordinates and mark at least 10 objects with their coordinates.

Chapter 2: Introduction to Linear Polynomials

1. Identify the variables, coefficients, and constant terms in the following expressions:

(a) $5x + 7$

(b) $3y^2 + 2y - 9$

2. Write algebraic expressions for:

(a) 5 more than twice a number

(b) Product of a number and 7 decreased by 4

3. Find the value of:

(a) $3x + 5$ when $x = 4$

(b) $x^2 - 2x + 1$ when $x = -3$

4. Form linear polynomials using the variables x and y .

5. Make a chart showing real-life examples where algebra is used in daily life.

6. Solve and simplify:

(a) $4x + 3x - 5$

(b) $8y - 2y + 7$

Activity Section

- Create a mathematical crossword or puzzle using coordinate geometry terms.
- Collect examples from newspapers or magazines where graphs or coordinates are used.
- Write a short paragraph on the importance of mathematics in everyday life.

SCIENCE

1. Read the chapter 1: Entering the world of secondary science and answer the following Questions:=-

- 1) What does a magnifying glass used to show the page number in your science book symbolises?
- 2) What does the compass on right corner of each page reminds you?
- 3) Why are some details ignored while explaining certain processes?
- 4) Think of a cricket ball being hit for a six. You want to make a simple model. What details would you include? What would you ignore?
- 5) Why is the speed of light denoted by 'c'?
- 6) Why is a kilogram used everywhere?
- 7) Why do weather forecasts sometimes go wrong?
- 8) Checking 'viral' claims on social media: Is eating food harmful during an eclipse?
- 9) How do learning to estimate help us?
- 10) How does a mask really work?

NOTE Do these questions in your Physics copy

2. Do the NCERT exercises at the end of each chapter2: Cell the building Block of life titled Revise, Reflect, Refine

3. Complete all the notes given for Cell the Building Block of life
4. Do the following questions in your Biology copies
 - 1) What is a nucleoid?
 - 2) Name the dense body inside the nucleus and state its role.
 - 3) State one structural similarity between mitochondria and plastids
 - 4) What causes the bright yellow or pink colour of flowers in plants?
 - 5) What is the functional role of leucocytes in plants?
 - 6) What is the function of: (a) contractile vacuole in amoeba (b) centrally large vacuole in plant cell.
 - 7) Discuss the role of lysosomes in managing cellular wastes.
 - 8) What is the biological significance of meiosis in living organism?
 - 9) What would happen if a cell loses its natural contact inhibition property? Explain the consequence in the living organism.
 - 10) Draw diagrams of :
 - a) Plant cell
 - b) Animal cell
 - c) Golgi body
 - d) Mitochondria
 - e) Plastids
 - f) Mitosis and meiosis
 - 11) Case study-based question:
 During a sports science seminar a doctor explains that athlete need highly efficient muscle cells. These muscle cells contain a double membraned organelle which metabolises glucose to generate energy for cellular activities. He further says that its inner membrane folds to increase surface area for energy producing process.
 - a. Name the organelle discussed by the doctor.
 - b. What is the biological name for the deep folds of inner membrane?
 - c. In which form is the energy released is stored?
 - d. Are these organelle present in prokaryotic cells?
5. Make exploratory project for inspire award, NCSC, science exhibition.

SOCIAL SC.

HOLIDAY HOMEWORK – CLASS IX (SOCIAL SCIENCE)

Q1. Write the meaning and scope of Social Science.

Q2. Define the following:

(a) Weathering

(b) Erosion
(c) Denudation

Q3. Explain any two landforms each, along with diagrams, formed by:
(a) Rivers (Upper, Middle, and Lower Course – two each)
(b) Wind
(c) Glaciers
(d) Sea Wave

Q4. Define disaster.

Q5. Write any five preventive measures each for the following disasters:
(a) Earthquake
(b) Flood
(c) Landslide
(d) Avalanche

Q6. Compare the Indus Valley Civilization and the Mesopotamian Civilization by writing their similarities and differences.

Q7. On an outline map of Asia, mark all the countries and learn their names.

AI

**** Communication Skills – Questions****

1. What is communication?
2. Why is communication important in daily life?
3. What are the elements of the communication cycle?
4. Who is a sender and receiver in communication?
5. What is feedback in communication?
6. What are the different modes of communication?
7. What is verbal communication? Give one example.
8. What is non-verbal communication? Give examples.
9. What is written communication?
10. What is visual communication?
11. What are the advantages of good communication skills?
12. What are barriers to communication?
13. What is active listening?
14. Why is listening important in communication?
15. How can communication skills be improved?

**** Self-Management Skills – Questions****

1. What is self-management?
2. Why are self-management skills important?
3. What is self-awareness?
4. What is self-confidence?
5. What is self-motivation?
6. What is stress?
7. What are common causes of stress?
8. How can stress be managed?
9. What is time management?
10. Why is time management important for students?
11. What are personal goals?
12. What are SMART goals?
13. How can we develop positive thinking?
14. What are the qualities of a self-disciplined person?
15. How does self-management help in success?

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HINDI

कक्षा 10 - हिंदी पाठ्यक्रम 'अ'

*ग्रीष्मकालीन गृहकार्य

सत्र 2026-27*

*निर्देश:

1. सभी कार्य ग्रीष्मकालीन अवकाश गृहकार्य का ंपौ में करें।
2. लेखन स्वच्छ, शुद्ध व आकर्षक हो. चित्र/बोर्डर से सजावट करें.
3. अंतिम तिथि: विद्यालय खुलने के 5 दिन के अंदर.

रचनात्मक लेखन

1. अनुच्छेद लेखन - 100-120 शब्द

निम्नलिखित में से किसी विषय पर अनुच्छेद लिखिए:

क. कृत्रिम बुद्धिमत्ता: वरदान या अभिशाप

ख. मेरी प्रिय पुस्तक जिसने मेरी सोच बदल दी

ग. "एक पेड़ माँ के नाम" - अभियान की सार्थकता

*2. पत्र लेखन -

क. आपके क्षेत्र में बढ़ते साइबर फ्रॉड की रोकथाम हेतु पुलिस अधीक्षक को पत्र लिखिए.

ख. छोटे भाई को मोबाइल का सीमित व सार्थक उपयोग बताते हुए पत्र लिखिए.

3. संदेश लेखन - 30-40 शब्द

क. आपकी माताजी बाजार गई हैं. बिजली विभाग से फोन आया कि कल 8 से 2 बजे तक बिजली नहीं रहेगी. पिताजी के लिए संदेश लिखिए.

ख. आपके मित्र ने बोर्ड परीक्षा में जिले में प्रथम स्थान प्राप्त किया है. उसे बधाई संदेश लिखिए.

4. विज्ञापन लेखन - 50 शब्द

क. "मधु-हर्बल शहद" के लिए आकर्षक विज्ञापन तैयार कीजिए.

ख. आपके विद्यालय द्वारा आयोजित "ग्रीष्मकालीन हिंदी लेखन कार्यशाला" का विज्ञापन लिखिए.

*5. ई-मेल लेखन -

क. प्रधानाचार्य को ई-मेल लिखकर विद्यालय में "साहित्य क्लब" शुरू करने का सुझाव दीजिए.

To: principal@school.com | Subject: साहित्य क्लब प्रारंभ करने हेतु अनुरोध

ख. अपने मित्र को ई-मेल लिखकर ग्रीष्मावकाश में किए गए सामाजिक कार्य का अनुभव साझा करें।

6. समाचार-पत्र से पर्यावरण/शिक्षा संबंधी एक गद्यांश काटकर चिपकाएँ व उस पर 5 प्रश्न स्वयं बनाकर उत्तर लिखें।

7. रचना के आधार पर वाक्य भेद- कोई 20 वाक्य लिखकर, भेद लिखिए।

8. सूरदास के पद, बालगोबिन भगत और नेताजी का चश्मा पाठ याद करें।

9. अपनी पाठ्यपुस्तक कृतिका के सभी पाठ पढ़ें और कठिन शब्द रेखांकित करें।

ENGLISH



Holiday Homework

Class X – English Language & Literature

Section A: Reading Skills

1 Read any one newspaper daily for 15 minutes.

Collect 5 new words every day.

Write their meanings and make one sentence for each word.

Paste one newspaper article related to:

Environment

Education

Sports

Science

Write a 100-word summary of each article.

Literature

From First Flight

Read all chapters and poems covered till now.

Prepare:

Character sketches of any three characters

Central idea/theme of any three poems

Summary of any three chapters

Moral/message of each chapter

3 Book Cover Design

Design a creative cover page for your favourite novel/storybook and write why you like it.

4 Poem Recitation Video

Record a short video reciting your favourite English poem with proper expression and tone

5 Travel Brochure

Design a brochure of any tourist place in India highlighting:
Famous attractions
Food
Culture
Best time to visit



Holiday Reading Challenge

Read one inspirational book/story during holidays and write:

Name of the book

Author

Main characters

What you learnt from it

Submission Instructions

Complete the work neatly in a separate notebook/file.

Use coloured pens, pictures, and creativity wherever possible.

Submit after reopening of school.

Happy Holidays & Happy Learning!

MATHS

1. Find the HCF and LCM of 6, 72 and 120 using fundamental theorem of arithmetic.
2. Find the largest number that divides 2053 and 967 and leaves a remainder of 5 and 7 respectively.
3. Two numbers are in the ratio 21 : 17. If their HCF is 5, find the numbers.
4. Can we have any $n \in \mathbb{N}$, where 12^n ends with the digit zero?
5. Prove that $\sqrt{5}$ is an irrational number.
6. Find HCF and LCM of 404 and 96 and verify that $\text{HCF} \times \text{LCM} = \text{Product of the two given numbers}$
7. Given that $\sqrt{2}$ is irrational, prove that $(5 + 3\sqrt{2})$ is an irrational number..
8. (a) On a morning walk three persons step off together and their steps measure 40 cm, 42 cm, 45 cm, what is the minimum distance each should walk so that each can cover the same distance

	<p>in complete steps? (b) There are 576 boys and 448 girls in a school that are to be divided into equal sections of either boys or girls alone. Find the total number of sections thus formed.</p> <p>9. Find the largest number that divides 2053 and 967 and leaves a remainder of 5 and 7 respectively.</p> <p>10. Two numbers are in the ratio 21 : 17. If their HCF is 5, find the numbers.</p> <p>11. Can we have any $n \in \mathbb{N}$, where 12^n ends with the digit zero?</p> <p>12. Prove that $\sqrt{5}$ is an irrational number.</p> <p>13. Find HCF and LCM of 404 and 96 and verify that $\text{HCF} \times \text{LCM} = \text{Product of the two given numbers}$</p> <p>14. Given that $\sqrt{2}$ is irrational, prove that $(5 + 3\sqrt{2})$ is an irrational number.</p> <p>15. (a) On a morning walk three persons step off together and their steps measure 40 cm, 42 cm, 45 cm, what is the minimum distance each should walk so that each can cover the same distance in complete steps? (b) There are 576 boys and 448 girls in a school that are to be divided into equal sections of either boys or girls alone. Find the total number of sections thus formed.</p> <p>16. Solve for x and y: $2x + 3y = 7$; $4x + 3y = 11$</p> <p>17. Find the values of a and b for which the following pair of linear equations has infinitely many solutions: $2x + 3y = 7$; $(a + b)x + (2a - b)y = 21$</p> <p>18. Find the value(s) of k so that the pair of equations $x + 2y = 5$ and $3x + ky + 15 = 0$ has a unique solution</p> <p>19. The sum of the digits of a two digit number is 9. The number obtained by reversing the order of digits of the given number exceeds the given number by 27. Find the given number.</p> <p>20. Find the zeroes of $\sqrt{3}x^2 + 10x + 7\sqrt{3}$ 12. Find a quadratic polynomial whose zeroes are -9 and 1.</p> <p>21. If the sum of the zeroes of the quadratic polynomial $ky^2 + 2y - 3k$ is equal to twice their product, find the value of k.</p> <p>22.. If the product of the zeroes of the polynomial $ax^2 - 6x - 6$ is 4, then find the value of a. Also find the sum of zeroes of the polynomial.</p> <p>23. Find the zeroes of $p(x) = 4x^2 + 24x + 36$ quadratic polynomials and verify the relationship between the zeroes and their coefficients.</p> <p>24. If α and β are zeroes of the quadratic polynomial $4x^2 + 4x + 1$, then form a quadratic polynomial whose zeroes are 2α and 2β. 17. If α, β are zeros of quadratic polynomial $2x^2 + 5x + k$, find the value of k such that $(\alpha + \beta)^2 - \alpha\beta = 24$</p>
SCIENCE	<p>Science holiday homework Class X</p> <p>1. complete all the experiments from 1 to 5 in the lab manual only</p> <p>2. complete the Book work, including intext questions and book exercise of chapter number 1: chemical reaction and equations, chapter number 5: life processes, and chapter number 8: heredity</p> <p>3. complete, the notes shared in the group of life, processes and heredity with beautiful diagrams in the fair notebook of biology only.</p> <p>4. prepare yourself for monthly test after summer break from chapter 1,5 and 8.</p> <p>5. solve the shared worksheet of previously asked CBSE board questions in any of the notebooks of science</p>

	<p>List of experiments:</p> <ol style="list-style-type: none"> 1. Performing and observing the following reactions and classifying them into: Unit-I <ol style="list-style-type: none"> a) Combination reaction b) Decomposition reaction c) Displacement reaction d) Double displacement reaction <p>Action of water on quicklime</p> <p>Action of heat on ferrous sulphate crystals</p> <p>Iron nails kept in copper sulphate solution</p> <p>Reaction between sodium sulphate and barium chloride solutions</p> 2. Preparing a temporary mount of a leaf peel to show stomata. 3. Experimentally show that carbon dioxide is given out during respiration. 4. Determination of the focal length of: a) Concave mirror (b) Convex lens by obtaining the image of a distant object. 5. Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.
SOCIAL SC.	<ol style="list-style-type: none"> 1) History (Nationalism in Europe and Nationalism in India) <ol style="list-style-type: none"> Activity I: Timeline Making <ol style="list-style-type: none"> 1) Task: Create a timeline of chapter Ch.1 The Rise of Nationalism in Europe and Ch.2 Nationalism in India and Include: <ol style="list-style-type: none"> a) Key events b) Dates and short descriptions c) Add at least 3 visuals (drawings, maps, symbols) 2) CIVICS (Power Sharing) <ol style="list-style-type: none"> Activity 1: Comparative Political Systems <ol style="list-style-type: none"> 1) Task: Make a table comparing power-sharing arrangements in Belgium and Sri Lanka. Include: <ol style="list-style-type: none"> a) Ethnic groups b) Government policies c) Outcomes or consequence d) Section with "Your Opinion": Which country handled diversity better and How. 3) <u>Project on Consumer Awareness(1 Project File)</u> <ol style="list-style-type: none"> 1. Introduction 2. Acknowledgement 3. Certificate 4. Who is a Consumer? 5. Consumer Exploitation 6. Consumer Rights 7. Consumer Responsibility 8. Consumer Awareness 9. Need of Consumer Awareness 10. Consumer Awareness in India 11. Consumer Courts

	<p>12. Jago Grahak Jago 13. National Consumer Helpline 14. Consumer Protection Act 1986 15. Conclusion 4) 1 map file (complete syllabus). (PDF of the syllabus is attached.) 5) 1 picture based question file of history and political science (complete syllabus). 6) Read next two chapters of each book and prepare atleast 10 MCQs from each chapter on your own.</p> <p>NOTE:- 1. Make a separate notebook for all the written work. 2. Total 2 files (1 file for consumer rights' project and 1 file for map + picture based questions)</p>
AI	<p>GENERAL INSTRUCTIONS</p> <ol style="list-style-type: none"> 1. This Holiday Homework is based on Chapter: Unit 1 — Revisiting AI Project Cycle & Ethical Frameworks and Part A Unit 1 — Communication Skills II as per CBSE syllabus (Code 417), Session 2026-27. 2. Attempt ALL questions. Each section carries marks as indicated. 3. Write neatly in your AI practical / holiday homework notebook. 4. Do NOT copy from peers — originality will be checked and marked. 5. For Case-Based and Competency-Based questions, read carefully before answering. 6. Marks Distribution: MCQ (10×1=10) Assertion-Reasoning (10×1=10) Case-Based (10×2=20) Competency-Based (10×3=30) TOTAL = 70 Marks <p>SECTION A — Multiple Choice Questions (MCQ) [10 × 1 = 10 Marks]</p> <p>Choose the correct option for each question:</p> <p>Q1. Which is the FIRST step of the AI Project Cycle? (a) Problem Scoping (b) Data Acquisition (c) Model Training (d) Deployment</p> <p>Q2. In the AI Project Cycle, 'Data Exploration' involves: (a) Writing Python code (b) Visualising data using graphs, charts and maps (c) Deploying the model (d) Scoping the problem</p> <p>Q3. Which of the following BEST describes an Ethical Framework in AI? (a) A programming language for AI (b) A structured step-by-step guide to ensure morally sound decisions (c) A dataset used to train models (d) A type of neural network</p> <p>Q4. Bioethics is a sector-based ethical framework primarily used in which domain? (a) Finance (b) Agriculture (c) Healthcare and Life Sciences (d) Transportation</p> <p>Q5. Which pillar of AI Ethics ensures that decisions made by AI can be explained and understood by humans? (a) Reliability (b) Transparency (c) Sustainability (d) Accountability</p> <p>Q6. A Rights-Based ethical framework in AI focuses on: (a) Maximising profits for the company (b) Protecting human rights and preventing discrimination (c) Using the most accurate algorithm (d) Reducing computation costs</p> <p>Q7. Which type of communication uses words — either spoken or written — to convey a message? (a) Non-verbal communication</p>

- (b) Visual communication
- (c) Verbal communication
- (d) Sign language

Q8. Listening carefully, maintaining eye contact, and not interrupting the speaker are features of:

- (a) Passive listening
- (b) Active listening
- (c) Selective listening
- (d) Critical listening

Q9. A hiring algorithm that rejects female candidates more often than male ones is an example of:

- (a) Model overfitting
- (b) Data augmentation
- (c) Bias and discrimination in AI
- (d) Underfitting

Q10. In the AI Project Cycle, which step involves selecting the right algorithm for the problem?

- (a) Problem Scoping
- (b) Data Exploration
- (c) Model Selection
- (d) Deployment

SECTION B — Assertion & Reasoning Questions [10 × 1 = 10 Marks]

Direction: Read the Assertion (A) and Reason (R) carefully. Choose the correct option:

- (a) Both A and R are true, and R is the correct explanation of A.
- (b) Both A and R are true, but R is NOT the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true.

Q1.

Assertion (A): Problem Scoping is the most critical step in the AI Project Cycle.

Reason (R): It defines the aim and objective of the project before data is collected or a model is built.

Q2.

Assertion (A): An AI model trained on biased data will always produce fair results.

Reason (R): AI systems learn patterns from their training data, including any biases present in it.

Q3.

Assertion (A): Ethical Frameworks in AI help prevent bias and protect privacy.

Reason (R): Ethical frameworks are only useful for large tech companies, not for schools or hospitals.

Q4.

Assertion (A): Transparency is a pillar of AI Ethics.

Reason (R): Transparent AI ensures that the logic behind AI decisions can be understood by users and stakeholders.

Q5.

Assertion (A): The AI Project Cycle is a one-time linear process.

Reason (R): It is called a 'cycle' because each stage feeds back into previous stages, making it iterative.

Q6.

Assertion (A): Non-verbal communication includes facial expressions, gestures, and body language.

Reason (R): Words are the only effective means of conveying meaning in professional settings

.Q7.

Assertion (A): A Virtue-Based ethical framework encourages AI decision-makers to act with honesty and integrity.

Reason (R): Virtue ethics focuses on the moral character of the decision-maker rather than fixed rules.Q8.

Assertion (A): Active listening is an important communication skill.

Reason (R): Active listening means only hearing the speaker without understanding or responding to them.Q9.

Assertion (A): Bioethics as an ethical framework can be applied to AI in healthcare.

Reason (R): Bioethics addresses patient privacy, data security, and the responsible use of AI in medical decisions.Q10.

Assertion (A): Data Acquisition involves collecting data from reliable and authentic sources.
Reason (R): Poor quality data leads to poor AI model performance, making data collection a critical step.

SECTION C — Case-Based Questions [10 × 2 = 20 Marks]

Read each case carefully and answer the questions that follow:

CASE 1: AgroSmart — Farming with AI

A group of Class X students decided to build an AI solution to help farmers predict crop diseases. They started by interviewing farmers to understand the problem, then collected images of diseased and healthy crops. They cleaned the data, chose a computer vision model, trained it, and tested it on new images before presenting it at a school exhibition.

Q1. Identify the stage of the AI Project Cycle in which the students interviewed farmers. Justify your answer. (2 marks) Q2. After collecting crop images, the students created bar graphs and pie charts to understand the data. Name this stage. What is its purpose? (2 marks)

CASE 2: MediBot — AI in Hospitals

A hospital in Delhi deployed an AI system to help doctors diagnose cancer. However, the system was trained mostly on data from male patients. As a result, it frequently misdiagnosed female patients. The hospital's board is now reviewing which ethical framework should have been applied during development to prevent this.

Q3. Which ethical problem is highlighted in this case? Name the ethical principle that was violated. (2 marks) Q4. Which sector-based ethical framework should the hospital have applied? List any TWO principles of this framework. (2 marks)

CASE 3: The School Debate

Priya and Rajan are representing their school in an inter-school debate. Their teacher advises: 'Listen actively when the opponent speaks, maintain eye contact with the judges, use clear and confident verbal communication, and back up your points with evidence.' Rajan, however, looks at the floor, speaks very fast, and does not listen when Priya is speaking.

Q5. List any TWO barriers to effective communication that Rajan demonstrates. Suggest how he can improve. (2 marks) Q6. The teacher mentioned 'active listening'. Define active listening and give TWO techniques used in it. (2 marks)

CASE 4: EduBot — AI Tutor

An EdTech company built EduBot, an AI tutor that recommends study topics to students. The company proudly says: 'EduBot is powered by a Rights-based framework to ensure every student is treated equally regardless of gender, religion, or language.' A utility-based review team also evaluated if EduBot's recommendations benefit the maximum number of students.

Q7. Differentiate between a Rights-based framework and a Utility-based framework as used in the context of EduBot. (2 marks) Q8. Why is it important for EduBot to be transparent in how it makes recommendations? Relate your answer to the pillar of AI Ethics. (2 marks)

Answer: CASE 5: The Job Interview

Aryan is preparing for a virtual job interview at an AI company. His mentor tells him: 'Your verbal communication must be clear; avoid using jargon. Use positive body language even on video — sit upright, nod, smile. Most importantly, listen to the interviewer's questions completely before answering.' Aryan also notices that the company's HR uses an AI screening tool to shortlist candidates.

Q9. Mention any TWO types of communication Aryan should use effectively during his interview, with one example of each. (2 marks)

Q10. The AI screening tool may have embedded biases. Which pillar of AI Ethics ensures it treats all candidates fairly? Explain. (2 marks)

SECTION D — Competency-Based Questions [10 × 3 = 30 Marks]

Answer the following in 3-5 sentences each. Use examples from real life wherever possible:

Q1. List and briefly explain ALL steps of the AI Project Cycle in sequence. (3 marks)

Q2. Distinguish between sector-based and value-based ethical frameworks with ONE example of each. (3 marks)

Q3. Why do we need ethical frameworks specifically for AI? Explain with reference to any THREE pillars of AI Ethics. (3 marks)

Q4. You are part of a team building an AI chatbot for mental health support. Identify any THREE ethical concerns and suggest how you would address them using an ethical framework. (3 marks) Q5. Explain the difference between verbal and non-verbal communication. Give TWO examples of each. (3 marks)

Q6. A social media platform uses an AI algorithm that shows users only content that matches their existing views. Analyse this situation using BOTH a rights-based and a utility-based framework. (3 marks)

Q7. Your school wants to build an AI system to predict students' exam scores. Describe how you would complete the AI Project Cycle for this idea — from Problem Scoping to Deployment. (3 marks)

Q8. What are barriers to effective communication? Name FOUR barriers and suggest one way to

	<p>overcome each. (3 marks)</p> <p>Q9. 'AI is only as ethical as the people who build it.' Do you agree with this statement? Justify your answer with reference to the AI Project Cycle and Ethical Frameworks. (3 marks)</p> <p>Q10. Imagine you are an AI ethics officer at a company. A colleague suggests using a dataset of only 500 records from one city to train a national loan approval AI. What would you advise, and which ethical principles support your decision? (3 marks)</p>

SUMMER BREAK HOLIDAY HOMEWORK- (2026-27)
CLASS XII

HIN	<p>प्रश्न.1 निम्नलिखित विषयों पर 120 शब्दों में रचनात्मक लेख लिखिए (क) राष्ट्र निर्माण में युवाओं की भूमिका (ख) आर्टिफिशियल इंटेलिजेंस</p> <p>प्रश्न- 2 अपनी कक्षा पत्रिका के लिए कोई 'स्वरचित कविता, कहानी, यात्रा वृत्तांत, निबंध, रोचक घटना का वर्णन' आदि को A4 साईज पेपर पर शुद्ध और आकर्षक रूप में लिखकर जमा करें।</p> <p>प्र.3 अपनी पाठ्यपुस्तक के सभी पाठों को पढ़कर एक पेज में सारांश लिखिए।</p> <p>प्र.-4 उल्टा पिरामिड शैली क्या है इसकी विशेषता बताइए?</p> <p>प्र.-5 रेडियो समाचार कैसे लिखा जाता है? इसके लेखन में किन बातों का ध्यान रखना पड़ता है?</p> <p>प्र.-6 समाचार पत्र में विशेष लेखन किसे कहते हैं? इसके विषय में लिखिए।</p> <p>प्र.-7 'उसने कहा था', 'कोसी का घटवार', 'चीफ की दावत', 'पूस की रात', 'मलबे का मालिक' ये कहानियाँ पढ़कर इनके बारे में 50 शब्दों में लिखना है और कक्षा में चर्चा करनी है।</p>
ENGLISH	
MATHS	
HISTORY	<p>HOLIDAY HOMEWORK FOR SUMMER VACATION 2026-27 KV AGCR COLONY</p> <p>Class-12th (History)</p> <p>Q.1 Do 20 mcq from chapter 1 and 20 mcq from chapter 2 in your notebook.</p> <p>Q. 2 Do map work from chapter 1 , you have to locate - Mohenjodaro, Harappa, Lothal, Dholavira, Kalibangab, Banawali, Changudaro, Nageshwar, Balakot, Rakhigarhi, and Shortughai.</p> <p>Q.3 Do map work from chapter 3 you have to locate 16 Mahajanpadaa and there capital and from page no 33 Distribution of Ashokan inscription, all Major Rock Edicts, Minor Rock Edicts, and Pilar Inscriptions.</p> <p>Q.Complete your Notebook till chapter 2.</p> <p>Q.Visit National Museum of Delhi Or any other Historical places and write down your experience on A4 sheet.</p> <p>Q.6 Prepare project File, Plastic File is not allowed and decorate cover page also</p> <p>Topic Theme 1 Theme 7 Theme 11 Theme 13</p> <p>You can choose any one topic for your Project File.</p>
GEOGRAPHY	<ol style="list-style-type: none"> 1.Writ, learn and locate indian states and their capital 2.Make a list of main countries of world with their capitals,locate also 3.Make a list of cities situated on rivers bank 4.Make a list of crops and largest producer state. 5.Make a list of 10 most populated states of India and least populated states 6.Make a list of 5 highest density and 5 lowest states 7..Complete 2 practical topics in practical file.
POL SC	<p>1Map Work</p> <p>Do map work in your notebook from these two chapters: Chapter-1 Challenges of Nation building</p>

	<p>Chapter-2 Era of one party dominance</p> <p>2 Cartoon Pictures</p> <p>Paste all cartoon pictures with answers in your political science notebook.</p> <p>3 Project Work</p> <p>Prepare a project on given topics. It should be a hand written project on A3 size sheets. The project should be summed up in 25-30 pages. The project must have a title/cover page, certificate, acknowledgement, index, introduction, analysis with headings and sub headings, conclusion and bibliography. It must include relevant news clippings, facts and figures.</p> <p>4. Complete your notebook and revise all completed chapters.</p>
ECO	<p>Questions:</p> <ol style="list-style-type: none"> Define externalities. Give one example of negative and positive externalities. What is its impact on welfare? How should the following be treated in estimating national income? Give valid reasons: <ul style="list-style-type: none"> a) Profits earned by foreign banks in India b) Expenditure on upgradation of fixed asset by a firm. c) financial assistance to flood victims. d) profits earned by the branches of a foreign bank in India. e) Salaries of Indians working in the American embassy in India f) payment of interest by an individual to a bank on a loan to buy a car. g) Expenditure by government on providing free educational services. h) Expenditure on purchasing a machine installed in a producing unit. I) expenditure on old age pensions by government . J) Expenditure by a firm on payment of fees to a chartered accountant K) payment of corporate tax by a firm. L) purchase of refrigerator by a firm for own use. Giving valid reasons, explain how the following would be treated while estimating domestic income . <ul style="list-style-type: none"> a) payment made by a Japanese tourist for goods purchased in India. b) broker's commission on the sale of second hand goods. C) profits earned by branches of country's bank in other countries d) profits earned by a branch of SBI in Japan e) profits earned by foreign companies in India. F) salaries of Indians working in the Russian embassy in India G) fees to a mechanic paid by firm. h) Interest paid by an individual on a car loan taken from a bank. I) expenditure on purchasing a car for use by a firm. GDP does not give us clear indication of economic welfare of a country . Defend or refute the given statement with valid reasons. Define the problem of double counting in the computation of national income . State any two approaches to correct the problem of double counting. Explain the precautions that should be taken while estimating national income by income method and expenditure method . Explain GDP deflator and its significance Due to inflation, Nominal GDP increased, but Real GDP remained unchanged." (a) What does this indicate? (b) Which GDP is a better measure and why?

	<p>9. Government increases indirect taxes on goods.” (a) What will be the impact on market price? (b) How will it affect GDP at market price?</p> <p>10. Differentiate between quantitative and qualitative instruments of central bank to regulate money supply and briefly explain these instruments.</p>
ACCOUNTANCY	<p>Complete short answer questions in the book of the chapters completed. Complete all long answer questions of the completed chapters in notebook. Do the attached worksheet. Attempt Monthly tests again.</p> <p>https://docs.google.com/document/d/1AmXBR69cgWcniyOSk8Ah_MSL7gEBb2-E/edit?usp=drivesdk&oid=103943214958207714166&rtpof=true&sd=true</p>
B.STD.	<p>Complete the notes of all chapters completed. Prepare project on Marketing Management. Do the attached worksheet. Attempt Monthly tests again in notebook.</p> <p>https://docs.google.com/document/d/1AoyTAVnfmipds6rEaJynZVsscAU4W1jg/edit?usp=drivesdk&oid=103943214958207714166&rtpof=true&sd=true</p>
PHYSICS	<p>1. Complete NCERT EXEMPLAR and exercise questions of Electrostatics, Electric potential and capacitance and Current electricity.</p> <p>2. A 500 μC charge is at the centre of a square of side 10 cm. Find the work done in moving a charge of 10 μC between two diagonally opposite points on the square?</p> <p>3. What is the electrostatic potential due to an electric dipole at an equatorial point?</p> <p>4. What is the work done in moving a test charge q through a distance of 1 cm along the equatorial axis of an electric dipole?</p> <p>5. A point charge Q is placed at point O as shown in the figure. Is the potential difference $V_A - V_B$ positive, negative or zero, if Q is (i) positive (ii) negative?</p> <p>6. If the radius of the Gaussian surface enclosing a charge is halved, how does the electric flux through the Gaussian surface change ?</p> <p>7. Define the term electric dipole moment of a dipole. State its S.I. unit</p> <p>8. Two charges of magnitudes $-2Q$ and $+Q$ are located at points $(a, 0)$ and $(4a, 0)$ respectively. What is the electric flux due to these charges through a sphere of radius '3a' with its centre at the origin?</p> <p>9. Write AIM, APPARATUS, THEORY, DIAGRAM, OBSERVATION TABLE, PRECAUTION AND SOURCES OF ERROR IN PRACTICAL FILE OF PHYSICS for following practicals.</p> <p>EXP 3. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.</p>

	<p>EXP 4. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.</p> <p>EXP 5. To determine refractive index of a glass slab using a travelling microscope.</p> <p>EXP 6. To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias.</p> <p>12. WRITE AIM , APPARATUS, THEORY , DIAGRAM, PROCEDURE FOR FOLLOWING ACTIVITIES.</p> <p>1.To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.</p> <p>2. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.</p> <p>3.To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.</p> <p>4. To observe diffraction of light due to a thin slit.</p>
CHEMISTRY	<p>1.Which of the following aqueous solutions should have the highest boiling point 1.0 M Sodium hydroxide,1.0 M sodium sulphate, 1.0 M potassium nitrate1.0 M sodium sulphate, 1.0 M potassium nitrate? Explain.</p> <p>2. What is the unit of ebullio scopic constant?</p> <p>3. Out of 0.01 a solution of glucose and 0.01 M magnesium chloride solution which one has greater depression and freezing point ? explain.</p> <p>4. What happens when android mango is placed in a concentrated salt solution? Explain.</p> <p>5. How is a osmotic pressure of a solution depend on concentration treasure?</p> <p>6. Find out the value of Van't Hoff factors for potassium chloride, sodium chloride, potassium sulphate, potassium ferro cyanide?</p> <p>7. How is value of Henry's constant depend upon the temperature? Explain</p> <p>8. We have 3 solutions of sodium chloride labelled as "A", "B" & " C" with concentrations 0.1 M, 0.01 M and 0.001 M respectively. Arrange them in increasing order of Van't Hoff factor.</p> <p>9. 4 L of 0.02 M aqueous solution of sodium chloride was diluted by adding 1L of water. find out the molarity of the resultant solution.</p> <p>10. Components of a binary mixture of 2 liquids A and B were being separated by distillation. After some time separation of components stopped and composition of vapour phase became the same as that of the liquid phase. Both the components started coming in the distillate. Explain why this happened.</p> <p>11. Explain why on addition of one mol sodium chloride to 1 l of water, the boiling point of water increases, while addition of 1 mol of methyl alcohol to 1 l of water decreases its boiling point.</p> <p>12.Account for followings</p> <p>a. Aquatic species are more comfortable in cold water in comparison to warm water.</p> <p>b. At higher altitude, a feeling of weakness and difficulty breathing.</p> <p>c. Chilled cold drinks are tastier than normal cold drinks.</p> <p>d. When chloroform is mixed with acetone, resultant solution becomes hot.</p> <p>13.Aqueous Copper sulphate solution and aqueous Silver nitrate solution are electrolysed by one ampere current for 10 minutes in separate electrolytic cells . Will the mass of copper and silver deposited on the Cathode be same or different? Explain your answer.</p> <p>14.What is the relationship between Gibbs free energy of the cell reaction in a galvanic cell and the</p>

EMF of the cell? When will the maximum work be obtained from a galvanic cell?

15. Depict the galvanic cell in which the cell reaction is $\text{Cu} + 2\text{Ag}^+ \rightarrow 2\text{Ag} + \text{Cu}^+$

16. Write the cell reaction of a lead storage battery when it is discharged. how does the density of the electrolyte change when the battery is discharged?

17. Why on dilution the molar conductivity of acetic acid increases drastically, while that of sodium acetate increases gradually?

18. State a condition under which a bimolecular reaction is kinetically a first order reaction.

19. Write the rate equation for the reaction $2\text{A} + \text{B} \rightarrow \text{C}$ if the order of the reaction is zero.

20. For which type of reactions, order and molecularity have the same value?

21. In a reaction, if the concentration of reactant A is tripled, the rate of reaction becomes twenty-seven times. What is the order of the reaction?

22. For a reaction $\text{A} + \text{B} \rightarrow \text{Products}$, the rate law is $-\text{Rate} = k[\text{A}][\text{B}]^{3/2}$. Can the reaction be an elementary reaction? Explain.

23. For a general reaction $\text{A} \rightarrow \text{B}$, the plot of concentration of A vs time is given in Fig. Answer the following question on the basis of graph.

(a) What is the order of the reaction ?

(b) What is the slope of the curve?

(c) What is the unit of the rate constant?

24. The reaction between $\text{H}_2(\text{g})$ and $\text{O}_2(\text{g})$ is highly feasible yet allowing the gasses to stand at room temperature in the same vessel does not lead to the formation of water. Explain.

25. Match the graph given in Column I with the order of reaction given in Column II. More than one item in Column I may link to the same item in Column II.

Column I	Column II
(a)	(i) 1st order

9. Suggest a method of producing hybrid seeds.
10. Identify the reason why some flowers produce nectar.
11. Compare the process of pollination in wind vs. insect-pollinated flowers.
12. Analyze the advantages and disadvantages of self-pollination.
13. Why is cross-pollination considered to promote genetic diversity?
14. Analyze the importance of synchrony in pollen release and stigma receptivity.
15. Mention the role of synergids during fertilization.
16. Why might a plant evolve mechanisms to avoid self-pollination?
17. You observe a flower with both reproductive parts but still relies on cross-pollination. Explain why.
18. Why are seed banks important in conserving plant biodiversity?
19. Draw Transverse section of young anther with all layers, Mature pollen grain, Typical ovule, Mature embryo sac, Pistil showing path of pollen tube growth, Typical Dicot and Monocot embryo, Structure of Maize grain.
20. Explain how the condition of polyembryony arises.

LESSON – HUMAN REPRODUCTION

1. Identify the hormone responsible for ovulation.
2. Label the parts of the male reproductive system.
3. List the stages of the menstrual cycle.
4. What is the role of the placenta?
5. Which structure in females receives the fertilized egg?
6. Explain how the menstrual cycle is regulated by hormones.
7. Describe the process of implantation.
8. Describe the function of the fallopian tube.
9. Why is the scrotum located outside the body?
10. Explain the importance of amniotic fluid.
11. Describe the changes in hormone levels during pregnancy.
12. Interpret the role of FSH and LH in reproduction in human male and female both.
13. Why does menstruation occur?
14. How does the structure of sperm aid in fertilization?
15. Draw Diagrammatic representation of Spermatogenesis and Oogenesis, Sectional view of seminiferous tubules(enlarged), Sectional view of ovary, Diagrammatic representation of various events during menstrual cycle.

LESSON – REPRODUCTIVE HEALTH

1. Predict the outcome if the fallopian tubes are blocked.
2. Suggest ways to maintain reproductive health.
3. A woman has irregular periods; what might be the causes?
4. Explain how birth control pills prevent pregnancy.
5. How would an imbalance in estrogen affect the menstrual cycle?
6. Justify the need for sex education in schools.
7. Evaluate how lifestyle affects reproductive health.
8. Write down the effects of reproductive diseases like STDs.
9. Evaluate pros and cons of various contraceptive methods.
10. What is amniocentesis? Why is there statutory ban in India?
11. Mention the types of sterilization method. Discuss any one advantage and disadvantage of it.
12. Expand and Explain: GIFT, ZIFT, ICSI, AI.
13. Differentiate: Medicated IUDs, non-medicated IUDs and Hormonal IUDs. How do implants

and IUDs act?

14. Name the STDs caused by bacteria, virus and fungi.

15. Discuss natural method of contraception and how do barrier method of contraception work?

Prepare your notes on the Chapter: Molecular Inheritance and Variation.

Complete your practical work in Practical file.

Choose any one Biological topic from your book and prepare your Investigatory Project.

COMPUTER
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GENERAL INSTRUCTIONS

1. This Holiday Homework covers TWO chapters: Chapter 1 — Python Revision Tour and Chapter 2 — Working with Functions, as per the CBSE Class XII Computer Science Syllabus 2026-27 (Code 083).

2. The paper has FIVE Sections — A to E. Attempt ALL questions.

3. Section A: MCQ (10×1=10 M) | Section B: Assertion-Reasoning (10×1=10 M) | Section C: Case-Based (10×2=20 M) | Section D: Competency-Based (10×3=30 M) | Section E: Programming (10×3=30 M) | TOTAL: 100 Marks

4. ALL programming questions must be answered in Python only.

5. Write your answers neatly in your CS notebook.

6. Questions are framed from Previous Year CBSE Board Papers (2022–2025) pattern.

7. Do NOT copy from peers. Original work will be awarded full marks.

SECTION A — Multiple Choice Questions (MCQ) [10 × 1 = 10 Marks]

Choose the correct answer. Write the option letter AND the text of your answer.

Q1. Which of the following is an IMMUTABLE data type in Python?

- (a) List
- (b) Dictionary
- (c) Tuple
- (d) Set

Answer: _____

Q2. What will be the output of the following statement? `print(type(10/2))`

- (a) `<class 'int'>`
- (b) `<class 'float'>`
- (c) `<class 'str'>`
- (d) Error

Answer: _____

Q3. Which keyword is used to define a function in Python?

- (a) `func`
- (b) `define`
- (c) `def`
- (d) `function`

Answer: _____

Q4. Identify the OUTPUT of the following: `S = "MISSISSIPPI" print(S[:4] + "#" + S[-5:])`

- (a) MISS#SIPPI
- (b) MISS#IPPI
- (c) MISS#ISSI
- (d) MISI#SIPPI

Answer: _____

Q5. A variable defined inside a function and NOT accessible outside it is called a:

- (a) Global variable
- (b) Default variable
- (c) Local variable
- (d) Static variable

Answer: _____

Q6. Which of the following function calls uses KEYWORD arguments?

- (a) `area(5, 10)`
- (b) `area(l=5, b=10)`
- (c) `area(5)`
- (d) `area()`

Answer: _____

Q7. What is the output? `def fun(x, y=10):` `return x + y` `print(fun(5))`

- (a) 5
- (b) 10
- (c) 15
- (d) Error

Answer: _____

Q8. Which of the following correctly identifies a SYNTAX ERROR?

- (a) `5 + 3.0`
- (b) `'15' + 3`
- (c) `print 'Hello'`
- (d) `x = True + 1`

Answer: _____

Q9. What will be the output? `L = [10, 20, 30, 40]` `print(L[1:3])`

- (a) `[10, 20]`
- (b) `[20, 30]`
- (c) `[20, 30, 40]`
- (d) `[10, 20, 30]`

Answer: _____

Q10. The `global` keyword inside a function is used to:

- (a) Create a new local variable
- (b) Refer to and modify a global variable
- (c) Delete a global variable
- (d) Make a variable read-only

Answer: _____

SECTION B — Assertion & Reasoning Questions [10 × 1 = 10 Marks]

Direction: Read both Assertion (A) and Reason (R) carefully. Choose the correct option:

- (a) Both A and R are TRUE, and R is the correct explanation of A.
- (b) Both A and R are TRUE, but R is NOT the correct explanation of A.
- (c) A is TRUE but R is FALSE.
- (d) A is FALSE but R is TRUE.

Q1. Assertion (A): In Python, strings are immutable.

Reason (R): You cannot change individual characters of a string using indexing (e.g., `s[0]='A'` raises a `TypeError`).

Q2. Assertion (A): Positional arguments in Python must be passed in the exact order as defined in the function signature.

Reason (R): Python functions automatically assign default values to positional arguments.

Q3. Assertion (A): A function can return multiple values in Python.

Reason (R): Python returns multiple values as a tuple when separated by commas in the return statement.

Q4. Assertion (A): The `global` keyword must be used inside a function to read a global variable.

Reason (R): Without `global`, a function can READ a global variable but cannot modify it unless `global` is declared.

Q5. Assertion (A): Python lists and tuples both support indexing and slicing.

Reason (R): Both lists and tuples are sequence types in Python; the key difference is mutability.

Q6. Assertion (A): A function without an explicit `return` statement returns `None` by default.

Reason (R): The `return` statement is mandatory in every Python function.

Q7. Assertion (A): Default parameters in a function definition must always appear AFTER positional (non-default) parameters.

Reason (R): If default parameters appear before positional ones, Python raises a SyntaxError due to ambiguity in argument mapping.

Q8. Assertion (A): The `len()` function can be used on strings, lists, tuples, and dictionaries.

Reason (R): All four are sequence or collection types that store multiple elements and support `len()`.

Q9. Assertion (A): Logical errors in Python are detected by the interpreter at runtime.

Reason (R): Logical errors produce incorrect output but do not crash the program; they must be found through testing and debugging.

Q10.

Assertion (A): In Python, a variable defined inside an `if` block is accessible outside that block in the same function.

Reason (R): Python uses function scope (not block scope), so variables defined inside `if`, `for`, or `while` blocks are accessible throughout the function.

SECTION C — Case-Based Questions [10 × 2 = 20 Marks]

Read each case carefully and answer the questions that follow:

CASE 1: The Library Management Program

Ananya is building a library management system in Python. She writes the following code:

```
books = ['Python Basics', 'Data Science', 'AI Foundations', 'Web Dev']
def search_book(title, lib=books):
    if title in lib:
        return 'Book Found: ' + title
    else:
        return 'Not Available'

result = search_book('AI Foundations')
print(result)
print(search_book('Cloud Computing'))
```

QC1.1. What type of argument is `lib=books` in the function definition? What is it called, and what is its purpose? (2 marks)

QC1.2. Write the output produced by this program when it is executed. (2 marks)

CASE 2: Score Calculator

Rahul's teacher gave him the following Python code and asked him to find the output and spot the scope of variables:

```
score = 100

def update(marks):
    global score
    score = score + marks
    bonus = 10
    print('Inside function:', score, bonus)

update(25)
print('Outside function:', score)
# print(bonus) <- if uncommented, what happens?
```

QC2.1. Write the exact output produced by the above code. (2 marks)

QC2.2. What will happen if the commented `print(bonus)` line is uncommented and executed? Name the type of error that will occur and explain why. (2 marks)

CASE 3: String Operations — Palindrome Checker

Observe the following Python code written by Meera for a string-based task:

```
S = "Racecar Car Radar"
L = S.split()
for W in L:
    x = W.upper()
    if x == x[::-1]:
        for l in x: print(l, end="*")
    else:
        for l in W: print(l, end="#")
    print()
```

QC3.1. Write the complete output of the above code step by step. (2 marks)

QC3.2. What does `x[::-1]` do? What concept from Python Revision Tour does this belong to? (2 marks)

CASE 4: Mutable vs Immutable in Functions

Vikram passes a list and a number to two different functions and observes the results:

```
def modify_list(lst):
    lst.append(99)
    print('Inside:', lst)

def modify_num(n):
    n = n + 10
    print('Inside:', n)

my_list = [1, 2, 3]
my_num = 5
modify_list(my_list)
modify_num(my_num)
print('Outside list:', my_list)
print('Outside num:', my_num)
```

QC4.1. Write the complete output of this code. (2 marks)

QC4.2. Why does `my_list` change outside the function but `my_num` does not? Explain using the concept of mutable and immutable types. (2 marks)

CASE 5: Dictionary Operations

Ritu writes the following code during a Python revision exercise:

```
D = {'month': 'DECEMBER', 'exam': 'PREBOARD1'}
D['month'] = 'JANUARY'
D['EXAM'] = 'PRE2'
print(D.items())
print(len(D))
for k in D:
    print(k, '->', D[k])
```

QC5.1. Write the complete output of this code. (2 marks)

QC5.2. Why does the dictionary have 3 keys instead of 2 after the update? Relate this to how Python dictionary keys work. (2 marks)

Answer in 3-5 sentences. Use examples wherever relevant. Apply and Analyse level questions (HOTS).

QD1. Differentiate between MUTABLE and IMMUTABLE data types in Python. Give TWO examples of each. Why does this distinction matter when passing arguments to functions? (3 marks)

QD2. Explain the FOUR types of function arguments in Python with syntax and one example each: Positional, Default, Keyword, and Variable-length. (3 marks)

QD3. What is LOCAL scope and GLOBAL scope in Python? Explain the LEGB rule (Local–Enclosing–Global–Built-in) with a suitable example. (3 marks)

QD4. Distinguish between the following Python string methods with examples: (i) find() vs index() (ii) split() vs join() (iii) strip() vs replace() (3 marks)

QD5. Rohan writes a function that is supposed to return BOTH the sum AND the product of two numbers but it only seems to return one value. Explain how Python supports returning multiple values from a function. Write a correct version of such a function. (3 marks)

QD6. Compare LIST, TUPLE, and DICTIONARY in Python under: (i) Mutability (ii) Ordering (iii) Syntax (iv) Use case. Present as a table or structured comparison. (3 marks)

QD7. Explain what happens step-by-step when Python executes: ``V=50 ; def Change(N): global V ; V,N=N,V ; print(V,N,sep='#',end='@') ; Change(20) ; print(V)`` — trace the output and explain global variable behavior. (3 marks)

QD8. What is IMPLICIT TYPE CONVERSION in Python? How does it differ from EXPLICIT TYPE CONVERSION (typecasting)? Give TWO examples of each. (3 marks)

QD9. Neha wrote a function ``def calc(a, b=5, *args)`` and called it as ``calc(1, 2, 3, 4)``. Predict what ``a``, ``b``, and ``args`` will contain during this call. Explain the role of ``*args`` in Python functions. (3 marks)

QD10. Describe any THREE common types of Python errors (Syntax, Runtime, Logical) with one original example of each. Explain how you would detect and fix each type. (3 marks)

SECTION E — Programming Questions [10 × 3 = 30 Marks]

This section has 4 sub-types: (i) Output Finding (ii) Error Finding & Correction (iii) Function Writing (iv) Mini Programs. All answers must be in Python.

PART E-I — Find the Output (Questions P1 to P4)

QP1. Write the output of the following Python code: (3 marks)

```
def mystery(s):
    result = ""
    for i in range(len(s)-1, -1, -2):
        result += s[i]
    return result

print(mystery("KEYBOARD"))
print(mystery("PYTHON"))
```

QP2. Find all possible outputs of the following code. Also state the minimum and maximum values of ``b``: (3 marks)

```
import random
a = "Wisdom"
b = random.randint(1, 6)
for i in range(0, b, 2):
    print(a[i], end="#")
```

QP3. Write the output of this code step by step: (3 marks)

```
T = (9, 18, 27, 36, 45, 54)
L = list(T)
L1 = []
for i in L:
    if i % 6 == 0:
        L1.append(i)
T1 = tuple(L1)
print(T1)

D = {1:'one', 2:'two', 3:'three'}
res = []
for k, v in D.items():
    if 'o' in v:
        res.append(k)
print(res)
```

QP4. Trace and write the output of this function-based code: (3 marks)

```
c = 10
def add():
    global c
    c = c + 2
    print(c, end='#')

add()
c = 15
print(c, end='%')
```

```
def FunStr(S):
    T = ""
    for i in S:
        if i.isdigit():
            T = T + i
    return T

X = "PYTHON 3.9"
Y = FunStr(X)
print(X, Y, sep="**")
```

PART E-II — Error Finding & Correction (Questions P5 & P6)

QP5. The following code has SYNTAX and LOGICAL errors. Rewrite the corrected code. Underline ALL corrections made: (3 marks)

```
def swap_first_last(tup)
    if len(tup) < 2:
        return tup
    new_tup = (tup[-1],) + tup[1:-1] + (tup[0])
    return new_tup

result = swap_first_last((1, 2, 3, 4))
print("Swapped tuple: " result)
```

Errors found and corrected code:

QP6. Identify the errors in this function, state the type of each error, and write the corrected version: (3 marks)

```
def calculate_average(numbers)
    total = 0
    for num in numbers:
        total = total + num
    avg = total / len(numbers)
    print average
    return avg

marks = [85, 90, 78, 92, 88]
result = calculate_average(marks)
print("Average:", Result)
```

Errors and corrected code:

PART E-III — Write the Functions (Questions P7 to P10)

QP7. Write a Python function `COUNT_VOWELS(sentence)` that takes a string as input and returns the count of vowels (a, e, i, o, u — both upper and lower case) in the string. Also call the function with the input 'Hello World from India' and display the result. (3 marks)

QP8. Write a Python function `SECOND_LARGEST(lst)` that accepts a list of integers and returns the second largest element without sorting the list. Handle the case where the list has fewer than 2 elements. (3 marks)

QP9. Write a Python function `WORD_FREQUENCY(sentence)` that takes a string sentence as input and returns a dictionary where keys are words and values are their frequency count. Ignore case (treat 'Python' and 'python' as the same word). (3 marks)

QP10. [PYQ Pattern — 2025 CBSE Board Style] Write a user-defined function `STUDENT_GRADE(name, marks)` in Python that: (i) Accepts a student's name and a list of marks (5 subjects). (ii) Calculates the percentage. (iii) Assigns a grade: A+ (≥ 90), A (≥ 80), B (≥ 70), C (≥ 60), D (below 60). (iv) Returns and prints both the percentage and the grade. Call the function with `name='Arjun'` and `marks=[88, 92, 76, 85, 90]`. (3 marks)