

**Sardar Patel Public School**  
**Holiday Homework 2026-27**  
**Class-X**

<b>SUBJECTS</b>	<b>HOLIDAY HOMEWORK</b>
<b>Hindi</b>	<p>Roll. No. 1 to 10  संज्ञा ( परिभाषा, भेद, भाव वाचक संज्ञा )  नोता जी का चश्मा ( पात्र परिचय, उद्देश्य, सारांश, सीख )</p> <p>Roll. No. 11 to 20  विशेषण ( परिभाषा, भेद, विशेष्य से विशेषण बनाना )  सूखी डाली ( पात्र परिचय, उद्देश्य, सारांश, सीख )</p> <p>Roll. No. 21 to 30  पर्यायवाची शब्द  दीपदान ( पात्र परिचय, उद्देश्य, सारांश, सीख )</p> <p>Roll. No.-31 to 43  । निबंध - विषय -सह शिक्षा के माध्यम से बालक बालिका के मध्य मित्रता और समानता का भाग जगाता है इस विषय पर अपने विचार विस्तार पूर्वक लिखिए ।  काकी - (पात्र परिचय, उद्देश्य, सारांश, सीख )</p>
<b>English</b>	<p style="text-align: center;">PROJECT DISTRIBUTION BY GROUPS</p> <p><b>GROUP 1:</b>  Assigned Focus: Julius Caesar — Act III, Scene 1 (The Assassination of Caesar and Antony's vow of revenge)  Section A: English Literature (Character Conflict &amp; Themes)  Framed Title Question for File: "How does Shakespeare use the dialogue leading up to the assassination in Act III, Scene 1 to contrast Caesar's immense pride with the conspirators' calculated resolve, and how does Antony's subsequent soliloquy over Caesar's body shift the moral alignment of the play?"  Section B: English Language (Narrative Transformation)  Framed Title Question for File: "How can the tension-filled moments inside the Senate house during Act III, Scene 1 be rewritten into an original, fast-paced modern political thriller narrative, focusing on a protagonist who must witness the sudden fall of a powerful leader?"</p> <p><b>GROUP 2:</b>  Assigned Focus: Julius Caesar— Act III, Scene 2 (The Public Forum: Funeral Orations by Brutus and Mark Antony)  Section A: English Literature (Rhetorical Analysis &amp; Alternate Perspective)  Framed Title Question for File: "In Act III, Scene 2, how does Mark Antony use irony and emotional manipulation to completely subvert Brutus's logical justification for the assassination, and how would the trajectory of the Roman crowd change if Brutus had remained behind to defend his speech?"  Section B: English Language (A Script for Contemporary Oratory)  Framed Title Question for File: "How can the rhetorical strategies, crowd psychology, and sharp dialogue patterns found in the forum speeches of Act III, Scene 2 be adapted into a modern 21st-century courtroom or political script, highlighting how public opinion is swayed by media and speech-making today?"</p> <p><b>GROUP 3:</b>  Assigned Focus: Julius Caesar— Act III, Scene 3 (The attacking of Cinna the Poet by the frenzied Roman mob)  Section A: English Literature (Thematic Analysis of Mob Mentality)  Framed Title Question for File: "To what extent does the brief, violent encounter involving Cinna the Poet in Act III, Scene 3 serve as a stark thematic commentary</p>

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	<p>on the destructive nature of unchecked mob mentality, loss of individual identity, and the immediate consequences of Antony's speech?"</p> <p>Section B: English Language (Historical &amp; Cultural Context Evaluation)  Framed Title Question for File: "Considering the socio-political climate of Elizabethan England regarding civil unrest and succession, how did Shakespeare use the terrifying realism of the Roman mob in Act III, Scene 3 to deliver a historical warning to his contemporary audience?"</p> <p>MANDATORY FILE STRUCTURE (To be given to students)</p> <ol style="list-style-type: none"> <li>Title Page: Name, Roll Number, Class/Section, Subject, and your assigned Group Title Question.</li> <li>Acknowledgment</li> <li>Index</li> <li>Introduction (200 - 250 words): Detailed explanation of your group's assigned question. <ul style="list-style-type: none"> <li>* Personal objectives and reasons for evaluating this specific scene of *Julius Caesar*.</li> <li>Overview of the textual methods used to compile the project.</li> </ul> </li> <li>Main Body (700 - 900 words): Must contain structured, relevant sub-headings. <ul style="list-style-type: none"> <li>Section A: Comprehensive analysis citing specific act/scene line references.</li> <li>Section B: Original narrative text or modern script draft.</li> </ul> </li> <li>Conclusion (150 - 200 words): A final, synthesized summary of your findings or creative outputs.</li> <li>Bibliography: Explicitly citing the textbook edition, publication year, and any reference commentary utilized.</li> </ol>
<b>Maths</b>	<p>Students have to make a project file on suggested assignments:</p> <ul style="list-style-type: none"> <li>- Comparative newspaper coverage of different items.</li> <li>- Survey of various types of Bank accounts, rates of interest offered.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>- Planning a home budget.</li> <li>- Conduct a survey in your locality to study the mode of conveyance / Price of various essential commodities / favourite sports. Represent the data using a bar graph / histogram and estimate the mode.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>- To use a newspaper to study and report on shares and dividends.</li> <li>- Set up a dropper with ink in it vertical at a height say 20 cm above a horizontally placed sheet of plain paper. Release one ink drop. Observe the pattern, if any, on the paper. Vary the vertical distance and repeat. Discover any pattern of relationship between the vertical height and the ink drop observed.</li> </ul>
<b>Physics</b>	<p>Candidates are required to complete practical on following topics in practical file:</p> <ol style="list-style-type: none"> <li>Determine the focal length of a convex lens by using two pins and formula <math>f = uv/(u+v)</math></li> <li>Determine the VR and MA of a given pulley system.</li> <li>Trace the course of different rays of light refracting through a rectangular glass slab at different angles of incidence, measure the angles of incidence, refraction and emergence. Also measure the lateral displacement.</li> <li>Determine the focal length of a convex lens by (a) the distant object method and (b) using a needle and a plane mirror.</li> </ol>
<b>Chemistry</b>	<p>Candidates are expected to have completed the following minimum practical work:</p> <ol style="list-style-type: none"> <li>Action of heat on the following substances: <ol style="list-style-type: none"> <li>Copper carbonate, zinc carbonate</li> <li>zinc nitrate, copper nitrate, lead nitrate</li> </ol> Make observations, identify the products and make deductions where possible (equations not required).</li> <li>Make a solution of the unknown substance; add sodium hydroxide solution or ammonium hydroxide solution, make observations and give your deduction. Warming the mixture may be needed. Choose from substances containing Cu(II), Fe(II), Fe(III), Pb(II), Zn(II), NH<sub>4</sub>(I).</li> </ol>

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	<p>3. Supply a solution of a dilute acid and alkali. Determine which is acidic and which is basic, giving two tests for each.</p> <p>4. Add concentrated hydrochloric acid to each of the given substances, warm, make observations, identify any product and make deductions: (a) copper oxide (b) manganese dioxide.</p>
<b>Biology</b>	<p>Students have to prepare <b>at least 3 practical/project works</b> from both <b>Plant Life</b> and <b>Animal Life</b> sections combined.</p> <p>Each student must prepare a <b>practical/project file of more than 30 pages</b> including: Cover Page, Certificate, Acknowledgement, Index, Aim/Objectives, Materials, Required, Procedure, Observation, Result/Conclusion, Diagrams/Pictures, Precautions</p> <p>Project work should be neat, labelled properly, and handwritten.</p> <p><b>Roll No. 1 to 7</b> Diffusion using potassium permanganate in water Osmosis – Thistle Funnel experiment Demonstration of transpiration using Bell Jar Identification of structures of the urinary system</p> <p><b>Roll No. 8 to 14</b> Potato Osmoscope experiment Absorption using a small herbaceous plant Identification of internal structure of Ear and Eye Identification and location of endocrine glands</p> <p><b>Roll No. 15 to 21</b> Photosynthesis – necessity of light Photosynthesis – necessity of carbon dioxide Identification of blood cells under microscope Structure of heart and kidney through charts/models</p> <p><b>Roll No. 22 to 28</b> Observation of stages of mitosis Photosynthesis – necessity of chlorophyll Internal structure of Ear and Eye Endocrine glands – Thyroid, Pancreas, Pituitary, Adrenal</p> <p><b>Roll No. 29 to 35</b> Diffusion using potassium permanganate Bell Jar experiment on transpiration Structure of urinary system Identification of blood cells</p> <p><b>Roll No. 36 to 43</b> Osmosis – Potato Osmoscope Photosynthesis – release of oxygen using Hydrilla Structure of heart and kidney Identification of endocrine gland</p>
<b>History</b>	<p>Students have to prepare any two projects from the topics allotted below.</p> <p>Each student must prepare a project file of more than 30 pages including: Cover Page, Certificate, Acknowledgement, Index, Introduction, Main Content, Pictures/Charts/Maps, Conclusion, Bibliography.</p> <p>Project work should be neat, creative, and handwritten.</p> <p>Roll No. 1 to 7:</p>

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	<p>Illustrative Study of Subhas Chandra Bose Life Sketch and Contributions of Dr. A.P.J. Abdul Kalam Roll No. 8 to 14: Book Review on "Wings of Fire" Influence of Gandhian Principles on Nelson Mandela Roll No. 15 to 21: Study of Three National Leaders (1857–1914) Report on Any One UN Agency – UNICEF / WHO / UNESCO Roll No. 22 to 28: Illustrative Study of Subhas Chandra Bose Book Review on "Wings of Fire" Roll No. 29 to 35: Life Sketch and Contributions of Dr. A.P.J. Abdul Kalam Influence of Gandhian Principles on Nelson Mandela Roll No. 36 to 43: Study of Three National Leaders (1857–1914) Report on Any One UN Agency – UNICEF / WHO / UNESCO</p>
<b>Geography</b>	<p>Students have to prepare any two projects from the topics allotted below. Each student must prepare a project file same as history project and of more than 30 pages including: Roll No. 1 to 7: Wildlife Conservation Efforts in India Development of Tourism in India Roll No. 8 to 14: Transport in India Waste Management and Recycling Roll No. 15 to 21: Survey of a Local Market Industrial Pollution and Environmental Protection Roll No. 22 to 28: Wildlife Conservation Efforts in India Transport in India Roll No. 29 to 35: Development of Tourism in India Waste Management and Recycling Roll No. 36 to 43: Survey of a Local Market Industrial Pollution and Environmental Protection</p>
<b>Computer</b>	<p>Do all the question in computer practical file <b>List of 15 Practical Questions [ATTEMPT ALL QUESTIONS ]</b></p> <ol style="list-style-type: none"><li><b>1. Compound Interest Calculation:</b> Define a class Bank to accept the principal amount (<math>p</math>) and time period (<math>n</math>). Calculate the total amount (<math>a</math>) using the formula <math>a=p(1+r/100)n</math>, where the rate (<math>r</math>) is determined by specific time-period slabs (e.g., 9% for up to 0.5 years, 10% for up to 1 year, etc.).</li><li><b>2. Telephone Bill Generator:</b> Define a class Bill to calculate the monthly bill for a consumer based on the number of calls consumed. Use slabs for call rates (e.g., first 100 calls at 0.60/call) and add a fixed monthly rental of ₹125.</li><li><b>3. SuperSpy Number:</b> Write a program to input a number and check if it is a <b>SuperSpy number</b> (a number is called SuperSpy if the sum of its digits equals the number of its digits).</li></ol>

4. **Prime Number Check:** Create a class Prime with a member function checkprime() to input a number and display whether it is a prime number or not.
5. **Fibonacci Series:** Write a program in Java to accept a limit from the user and display the **Fibonacci series** (0, 1, 1, 2, 3, 5, 8...) up to that given number.
6. **Floyd's Triangle:** Write a program to generate and display **Floyd's Triangle** up to  $n$  rows (e.g., 1; 2 3; 4 5 6...) using nested loops.
7. **Binary Search on Array:** Define a class to search for a user-input value from a given list of 10 sorted numbers. Display "Search Successful" if found; otherwise, display "Search element not found" using the **Binary Search** technique.
8. **Linear Search on Strings:** Store 10 student names in a Single Dimensional Array (SDA). Perform a **Linear Search** to find if a specific name entered by the user exists in the list and display its position.
9. **Bubble Sort:** Input 10 integers into an array and arrange them in **ascending order** using the **Bubble Sort** technique.
10. **Selection Sort:** Accept 10 lowercase letters in an array and sort them in **alphabetical order** using the **Selection Sort** technique.
11. **Even and Odd Sum (SDA):** Write a program to store 20 numbers in an SDA. Calculate and display the **sum of all even numbers** and the **sum of all odd numbers** separately.
12. **2D Array Row Sum:** Define a class to accept values into a **4x4 array** and find and display the **sum of each individual row**.
13. **String Character Manipulation:** Accept a string, convert it to uppercase, and create a new string by replacing **every vowel with its immediate next character** and **every consonant by its previous character**.
14. **Common Characters Removal:** Write a program to input two strings. Check both strings and **remove all common characters** from both, then print the updated strings.
15. **Method Overloading (Display):** Define a class to overload the method display() to:
  - o Print a specific number pattern (e.g., 1 2 1 2 1) using nested loops.
  - o Print the quotient of  $m/n$  or the sum of twice  $n$  and thrice  $m$  based on a condition.
  - o Calculate the value of  $z$  using the formula  $z=p \times q$  with given parameters