



Sardar Patel Public School
Holiday Homework 2026-27(Class-12th)

<u>SUBJECTS</u>	<u>HOMEWORK</u>
Hindi	<p>शरणागत कहानी के शीर्षक के औचित्य पर प्रकाश डालते हुए कहानी के मुख्य पात्र और गौढ़ पत्रों की विशेषताओं का वर्णन कीजिए ।</p> <p>कंप्यूटर ने सूचना प्रौद्योगिकी के विकास में क्रांति उत्पन्न कर दी है । ऊपर्युक्त कथन के संबंध में अपने विचार स्पष्ट करते हुए एक निबंध अपनी नोटबुक में लिखें ।</p>
English	<p>Word Limit:1000 – 1500 words</p> <p>GENERAL INSTRUCTIONS FOR STUDENTS</p> <p>Handwritten Mode: The project must be handwritten on one side of A4 ruled sheets. Use the blank left pages for illustrations, mind maps, or character webs.</p> <p>* **Title Requirement:** Your project must begin with the **exact question** assigned to your batch below.</p>

SUBJECTS

HOMEWORK

* **Textual Evidence:** You must quote lines from your assigned scene to support your analysis or creative writing.

PROJECT DISTRIBUTION BY ROLL NUMBERS

BATCH 1: Roll Numbers 1 to 10

Assigned Focus: Macbeth— Act III, Scene 1
(Macbeth's soliloquy and plotting with the Murderers)

Section A: English Literature (Character Analysis & Perspective)

Framed Title Question for File: "How does Shakespeare use Macbeth's soliloquy ('To be thus is nothing; but to be safely thus—') in Act III, Scene 1 to expose his deepening psychological paranoia, and how does his manipulation of the Murderers reflect his transformation from a valiant soldier into a calculating tyrant?"

Section B: English Language (Narrative Storytelling based on Drama)

Framed Title Question for File: "How can the intense, clandestine meeting between King Macbeth and the two Murderers in Act III, Scene 1 be rewritten into a modern psychological short story, capturing their desperation and bitter motives through a dark prose narrative?"

BATCH 2: Roll Numbers 11 to 20

Assigned Focus: Macbeth — Act III, Scene 2 (The growing rift and shared anxiety between Macbeth and Lady Macbeth)

Section A: English Literature (Alternate Outcome & Psychological Shift)

SUBJECTS

HOMEWORK

Framed Title Question for File: "In Act III, Scene 2, Macbeth keeps Lady Macbeth 'innocent of the knowledge' of his plot against Banquo. If he had instead confided in her, how might her reaction have altered their deteriorating relationship, and what impact would this have on the overall mood of the scene?"

Section B: English Language (A Script for Modern Dramatization)

Framed Title Question for File: "How can the underlying marital tension, mutual guilt, and sleepless dread experienced by Macbeth and Lady Macbeth in Act III, Scene 2 be adapted into a contemporary 21st-century theatrical script, utilizing modern dialogue while retaining Shakespeare's emotional subtext?"

BATCH 3: Roll Numbers 21 to 30

Assigned focus :Macbeth— Act III, Scene 3 (The ambush on Banquo and Fleance's escape)

Section A: English Literature (Thematic Analysis of Plot & Climax)

Framed Title Question for File:"To what extent does the brief but chaotic ambush in Act III, Scene 3 serve as the structural turning point (peripeteia) of the play, and how does the addition of the Third Murderer heighten the themes of distrust and ultimate failure for Macbeth?"

Section B: English Language (Historical, Cultural, and Stage Evaluation)

Framed Title Question for File: "Given that Act III, Scene 3 takes place in pitch darkness outside the palace, how did the physical and technical constraints of the Elizabethan stage influence

SUBJECTS

HOMEWORK

	<p>Shakespeare's use of language, spoken cues, and imagery to convey panic to the audience?"</p> <p>MANDATORY FILE STRUCTURE (To be given to students)</p> <ol style="list-style-type: none">1. Title Page: Name, Roll Number, Class/Section, Subject, and your assigned **Title Question**.2. Certificate of Authenticity & Acknowledgment3. Index4. Introduction (200 - 250 words): Explain your specific title question.<ul style="list-style-type: none">* State your reasons for choosing this specific scene of <i>*Macbeth*</i>.* Give a brief summary of your plan of approach.5. Main Body (700 - 900 words): Must include distinct sub-headings.<ul style="list-style-type: none">For Section A: In-depth literary analysis with scene quotes.For Section B: Your original creative story/script draft.6. Conclusion (150 - 200 words): Summary of your insights or creative outcomes.7. Bibliography: Cite your specific edition of <i>*Macbeth*</i> and any secondary resources used.
Maths	<p>List of suggested assignments for Project Work:*</p> <ol style="list-style-type: none">1. Using a graph, demonstrate a function which is one-one but not onto.

SUBJECTS**HOMEWORK**

	<p>2. Using a graph demonstrate a function which is invertible.</p> <p>Or</p> <p>3. Explain the concepts of increasing and decreasing functions, using geometrical significance of dy/dx. Illustrate with proper examples.</p> <p>4. Find the derivatives of a determinant of the order of 3×3 and verify the same by other methods.</p> <p>Or</p> <p>5. Verify the consistency of the system of three linear equations of two variables and verify the same graphically. Give its geometrical interpretation.</p> <p>6. For a dependent system (non-homogeneous) of three linear equations of three variables, identify infinite number of solutions.</p>
Physics	<p>Candidates are required to write 25 page report on any one of the topics</p> <p>1 semiconductor devices</p> <p>OR</p> <p>2 ray optics</p> <p>OR</p> <p>3 Electromagnetic waves</p>
Chemistry	<p>Each student must choose any one project from the list given below and write it in approximately 25 pages.* 1. Amino acids: Peptides, classification, proteins structure and their role in the growth of living beings.</p>

SUBJECTS

HOMEWORK

Or

2. Nucleic Acid: DNA and RNA their structure. Unique nature. Importance in evolution and their characteristic features.

Or

3. Carbohydrates and their metabolism, Blood-haemoglobin and respiration.

Or

4. Vitamins and hormones

Or

5. Simple idea of chemical evolution.

Or

6. Natural polymers (any five) structure, characteristics, uses. Synthetic polymers (any five) method of preparation, structure, characteristics and uses

Or

7. Types of Dyes characteristics and uses. methods of preparation,

Or

8. Chemicals in medicines: antiseptics, antibiotics, antacids, etc. and their uses.

Or

9. Preparation of soap, nail polish, boot polish, varnish, nail polish remover, shampoo and perfumes.

Or

SUBJECTS

HOMEWORK

	<p>10. Chemicals and chemical processes in forensic studies.</p> <p>Or</p> <p>11. Insecticides, pesticides and chemical fertilisers.</p> <p>Or</p> <p>12. Ancient Indian medicines and medicinal plants.</p> <p>Or</p> <p>13. Organic Chemistry in Nutrition, Food Science and Biotechnology.</p> <p>Or</p> <p>14. Effect of Green House Gases.</p> <p>Or</p> <p>15. How Plastics have changed the world, both socially and economically.</p> <p>Suggested criteria for Project Work:</p> <p>Introduction/purpose, Contents, Analysis/ material aid (graph, data, structure, pie charts, histograms, diagrams, etc.), Presentation, Bibliography</p>
Biology	<p>Group 1: Genetics & Applied Biotechnology</p> <p>### Topic: DNA Fingerprinting – Principles, Techniques, and Real-World Applications</p> <p>*Based on Suggestive List Item (iv): DNA fingerprinting*</p> <p>* Project Objectives: *</p>

SUBJECTS

HOMEWORK

* To understand the molecular basis of DNA profiling (VNTRs, STRs).

* To detail the step-by-step laboratory process (DNA extraction, PCR amplification, gel electrophoresis).

* To document real-world case studies where DNA profiling solved legal or historical mysteries.

* **Student Work Division (3–4 Students):**

* **Student A (The Theorist):** Writes the introduction, history (Sir Alec Jeffreys), and the biological concepts behind DNA variations.

* **Student B (The Methodologist):** Creates detailed flowcharts, labeled diagrams of Gel Electrophoresis, and explains the step-by-step laboratory protocol.

* **Student C (The Analyst):** Collects and presents 2–3 specific case studies (e.g., forensic solving, paternity disputes) and adds printed/drawn sample "DNA profiles" to analyze.

* **Student D (if 4th member):** Summarizes the ethical and legal implications, drafts the conclusion, and compiles the bibliography.

Group 2: Ecology & Environmental Biology

Topic: Human Population Growth – Trends, Socio-Economic Impacts, and Environmental Resistance

Based on Suggestive List Items (ix) & (xii): Human population & Environmental resistance

This project allows for heavy data presentation, meeting the CISCE requirement for "graphs, tables, and statistical analysis."

SUBJECTS

HOMEWORK

* **Project Objectives:**

* To study the historical and current growth trends of the global and Indian human population.

* To analyze factors contributing to population dynamics (natality, mortality, exponential vs. logistic growth).

* To evaluate "Environmental Resistance" (limiting factors like resources, disease, space) and its impact on future sustainability.

* **Student Work Division (3 Students):**

* **Student A (Demographer):** Drafts the introduction, definitions of population parameters, and compares Malthusian theory vs. modern population models.

* **Student B (Data Analyst):** Sources and plots statistical data. They must draw population growth curves (S-shape/J-shape graphs) and comparative tables of demographic changes over the last few decades.

* **Student C (Ecologist):** Focuses entirely on environmental resistance, detailing how resource depletion and pollution act as limiting factors. Writes the final summary and bibliography.

Group 3: Human Health & Society

Topic: Cancer – Pathophysiology, Modern Diagnostic Tools, and Therapeutic Advancements

Based on Suggestive List Item (v): Cancer

A deeply clinical project that bridges core cell biology with healthcare and technology.

SUBJECTS

HOMEWORK

	<p>* **Project Objectives:**</p> <ul style="list-style-type: none">* To differentiate between normal cell division and cancerous growth (loss of contact inhibition, oncogenes).* To catalog and explain benign vs. malignant tumors and the process of metastasis.* To survey modern diagnostic methods (Biopsy, CT scans, MRI) and therapeutic modes (Immunotherapy, Chemotherapy, Radiation). <p>* **Student Work Division (3 Students):**</p> <ul style="list-style-type: none">* **Student A (Pathologist):** Covers the basic cell biology—what causes cancer, types of carcinogens, genetic mutations, and the difference between tumor types. Draws comparative cellular diagrams.* **Student B (Medical Historian):** Details the clinical presentation, how metastasis occurs, and creates a comprehensive chart/table on modern diagnostic and imaging techniques.
Accountancy	<p>SET-A</p> <p>PROJECT 1 : Preparation of Journal / sub-division of journal, Ledger, Trial balance and Financial Statements of a partnership form of business on the basis of a case study.</p> <ul style="list-style-type: none">• Develop a case study showing how two or more friends decide to come together and start a business with a certain amount of capital.• Prepare their Partnership Deed including interest on capital, partner's salary, commission, interest on

SUBJECTS

HOMEWORK

drawings, interest on partner's loan and rent paid to a partner.

- Write in detail, their transactions during the year: purchases - cash and credit, sales - cash and credit, expenses, purchase of fixed assets and depreciation charged on them, any outstanding expenses, prepaid expenses, accrued income, drawing bills of exchange, accepting bills payable etc.

- From this case study developed (which should have at least 15 transactions), pass the journal entries, post them into the ledger, prepare a Trial Balance and the Trading and Profit and Loss Account, Profit and Loss Appropriation Account and Balance Sheet.

- The various expenses,

for comparison

purposes, could be depicted in the form of bar diagrams and pie charts.

AND

PROJECT 2 : Taking the audited/ unaudited / imaginary

financial results of any leading company, its liquidity, solvency, activity and profitability

ratios of two consecutive accounting years or of

two consecutive quarters of an accounting year should be calculated and the comparison of the ratios of both the years or quarters should be

shown graphically and/ or pictorially (bar diagrams and pie charts).

OR

SUBJECTS

HOMEWORK

SET-B

PROJECT 1 : Preparation of Common Size and Comparative Income Statement and Balance Sheet of a company by taking into account its audited, unaudited / imaginary financial results of two consecutive quarters of an accounting year or of two consecutive accounting years.

- The comparison has to be made in the form of Common Size and Comparative Income

Statement and Balance Sheet.

- The comparison could also be shown graphically and/ or pictorially (bar diagrams and pie charts).

AND

PROJECT 2 : Preparation of a Cash Flow Statement with the

help of audited / unaudited / imaginary Balance Sheets of a company for two consecutive accounting years or two consecutive quarters of an accounting year could be taken along with atleast five additional information (depreciation, purchase/ sale of fixed assets, dividend paid/ proposed, tax paid/ proposed, amortization of intangible assets, profit or loss on sale of fixed assets including provision for depreciation on them and profit or loss on sale of investment).

- The results of the operating, investing and financing activities could be shown graphically and/ or pictorially (bar diagrams and pie charts).

Important :

i) Refer to the CISCE guidelines on project making sent in the group.

<u>SUBJECTS</u>	<u>HOMEWORK</u>
	ii) Also check your allotted project set.
Economics	<p>SET-A</p> <p>PROJECT 1: Conduct a Socio-Economic survey of a locality (minimum sample size should be 30 households) with reference to:</p> <p>(a) Demographic features.</p> <p>(b) Consumption Pattern Expenditure on necessities, comforts and luxuries.</p> <p>(c) Occupational structure.</p> <p>AND</p> <p>PROJECT 2 : Make a comparative study of the allocation of financial resources of the Central Governmen Budges on Agriculture, Defence, Industry and Education in the last ten years. Prepare a report on your observations.</p> <p>OR</p> <p>SET-B</p> <p>PROJECT 1 : Make a comparative analysis of lending performance of five Commercial Banks in the past six years with reference to the changing CRR and SLR.</p> <p>AND</p> <p>PROJECT 2 : Study a Public sector enterprise with reference to its relevance to the Indian Economy and its future prospects. Analyse the trend of its growth for the last ten years.</p>

SUBJECTS

HOMEWORK

	<p>Important :</p> <p>i) Refer to the CISCE guidelines on project making sent in the group.</p> <p>ii) Also check your allotted project set.</p>
Commerce	<p>SET-A</p> <p>PROJECT 1 : Compare the marketing mix (4Ps: Product, Price, Place, Promotion) and SWOT analysis of two companies in the same industry (e.g., Nestle vs. Patanjali or Hindustan Unilever vs. ITC).</p> <p>AND</p> <p>PROJECT 2 : Find out the names of companies under various sectors (FMCG, Pharma, automobile, etc) included in the NIFTY and the SENSEX.</p> <p>Make a chart of the same and track its movements over a period of one week.</p> <p>OR</p> <p>SET-B</p> <p>PROJECT 1 : Visit a commercial Bank. Find out the procedure to open a savings account. Find out the details of various Agency & General utility services provided by the bank.</p> <p>AND</p> <p>PROJECT 2: Formulate a capital plan for a hypothetical business organization.</p> <p>Justify your formulated plan.</p>

SUBJECTS

HOMEWORK

	<p>*Important :</p> <p>i) Refer to the CISCE guidelines on project making sent in the group.</p> <p>ii) Also check your allotted project set.</p>
Computer	<p>Make a practical file on</p> <ol style="list-style-type: none">1. Creating an expert system for road-traffic management (routing and re-routing of vehicles depending on congestion).2. Creating an expert system for medical diagnosis on the basis of symptoms and prescribe a suitable treatment.3. Creating a security system for age-appropriate access to social media.4. Simulate Adders using Arduino Controllers and Components.5. Simulate a converter of Binary to Decimal number systems using Arduino Controllers and Components.6. Develop a console-based application using Java for Movie Ticket Reservation.7. Develop a console-based application using Java to encrypt and decrypt a message (using cipher text, Unicode-exchange, etc).8. Develop a console-based application using Java to find name of the bank and branch location from IFSC.9. Develop a console-based application using Java to calculate taxable income (only direct tax).

SUBJECTS

HOMEWORK

10. Develop a console-based application using Java to develop a simple text editor (text typing, copy, cut, paste, delete).