

Apex Public School

Sant Nagar, Burari, Delhi

Summer Vacation Holiday Homework

Class XI (2025-26)

Subject	Homework
Business Studies	<p>ART INTEGRATED LEARNING</p> <p>Let's be creative- Make a newsletter, Pamphlet or flash cards on the assigned topics. Make them 3D and use only Eco friendly material. Try to reuse all material at home. Choose any one topic. a. Hindu Undivided Family Business (Roll No 1 – 5) b. Cooperative Organisation (Roll No 6 – 10)</p> <p>PROJECT WORK AND RESEARCH WORK</p> <p>Do the project work in School Project File. Project is based on Joint Stock Companies and the organisations related to it. Total no of pages in project must be minimum 20-25. The project must contain the following pages- Index with page no. and topics, certificate, acknowledgement. List of companies-- 1. Indian Oil Corporation Ltd 2. Reliance Industries Ltd 3. Tata Consultancy Service</p> <p>The students are required to observe the following information about the organisation. 1. SWOT analysis of company. SWOT analysis is an acronym for strengths, weaknesses, opportunities, and threats and is a structured planning method that evaluates those four elements of an organization, project or business venture. 2. History of company and the market share of the company 3. Pie chart representation of their revenue by services 4. List of the board of directors of the company along with their share holding 5. Major competitors of the company 6. Social responsibilities discharged towards society and environment.</p> <p>WORKSHEET BASED ON CONCEPTS</p> <p>Q1. Define business. Distinguish it from profession and employment. Q2. Explain the role of profit in organisation. Q3. Discuss the cause of business risk. Q4. Armaan is very fond of playing indoor games, he requested his father to buy him some indoor games. His father sold his old laptop on OLK.com and bought him a new play station from Cromaelectronio.com. Can the transaction by Armaan's father to sell the laptop be termed as a business transaction? Name the related feature of business to support your answer.</p>

Q5. GMR industries entered the airports space in early 2000s and is today counted amongst the top 5 airport private airport developer and operators globally. GMR Industries presently owns and operates Delhi international Airport and Hyderabad International Airports. Apart from being the largest private airport company in India, GMR Industries is the only Indian airport developer to have developed and operated airports outside India. Identify the types of industry and its category being discussed in above case.

Q6. Shiela after graduating from college went back to her home town in Meghalaya. It was small town with very few job opportunities. The karbi tribal women in that area were uneducated but still practiced the method of obtaining traditional colours from natural wild herbs. Their most popular dye was indigo obtained from the leave called 'sibu'. Using these colours they added variety to their textiles. The women were mainly confined to their homes and they did not know how to make a living out their talent. Shiela went from door to door and analyzed the problem that existed. She thought of setting up the business of buying textiles from them and converting them to suits in her factory in Noida. Her business turns out to be a great success. On the basis of the given information about Shiela, answer the following questions:

- a) Identify the types of business activity Shiela is engaged in.
- b) Specify the category of the type of business activity performed by Shiela.
- c) Which type of business activity is undertaken by Karbi tribal women by getting indigo obtained from the leave called 'sibu'?

Q7. Explain the meaning and features of Sole Proprietorship Firms.

Q8. What do you mean by Partnership? Explain its merits and demerits.

Q9. Partners in a firm has different roles and liabilities, Identify and explain the type of partner in a firm from the given examples:

- a) Rama is a partner in a business who has no actual interest in business trade or its profits but she is Paid fee by the firm for lending its name to firm.
- b) In Ram Hari & co. Ltd, Ram & Hari declare Gopal as a partner with knowing that Gopal remain silent then Gopal will be liable to third parties for any loss.
- c) What type of partner is Geeta if she only contribute capital, share profit and loss if any?
- d) What type of partner is Giri in Ram Hari & co. Where he is an outsider but represent himself as a partner.

Q10. Take a news from newspaper of any organisation which is related to Private Sector and do answer of following questions.

- a. In which year that organisation had been established?
- b. Who was the founder and their board of director of that organisation?
- c. Represent their revenues through Pie-Chart of last 10 years.
- d. List the product in which they are engaged.

	<p>Q11. Dhirubhai Chaurasiya operates a textile business. His family is joint and has a lot of ancestral property. All the 15 family members are a part of this business. He is the eldest male member in the family so he heads the business. He is liable to all the creditors of the business as he is the decision maker. Dhirubhai's grandson has just born a few days ago and he is also the member of the business.</p> <p>(a) Which form of business is being undertaken by Dhirubhai Chaurasiya ?</p> <p>(b) Identify the features of this form of business based on the information given.</p> <p>Kindly Note-All written work should be done in fair notebook and it should be hand written.</p> <ul style="list-style-type: none"> The queries related to Holiday Homework can be send to abhayrajput@gmail.com
Chemistry	<p style="text-align: center;">PREPARE A PROJECT ON ANY TWO TOPICS</p> <p>a. Waste to chemicals: Transforming wastes and residues to energy, fuels and other useful chemicals.</p> <p>b. Endangered elements: Managing and extraction, use, reuse and alternative development for elements in the chemical enterprise that are facing critical supply risks.</p> <p>c. Nobel laureates in Chemistry (any 5): Their Life and works.</p> <ul style="list-style-type: none"> Complete all exercise questions of Ch-1 & 2 in chemistry notebook Revise notes
POLITICAL SCIENCE	<p style="text-align: center;">Part A: PROJECT BASED</p> <ul style="list-style-type: none"> Tips for Choosing and Making Your Project: Pick a topic that genuinely interests you. Use charts, newspaper clippings, and case studies to enhance presentation. Include CBSE-specified elements: title page, certificate, index, introduction, conclusion, and bibliography. Use NCERT Political Science books as your base reference. Number of pages 30 to 40 <p style="text-align: center;">SUGGESTED TOPICS</p> <ol style="list-style-type: none"> Making of the Constitution. Elections in India. Working of the Indian Judiciary System. Social Justice: Are ethics followed in Indian Politics Human Rights Act and its gratification in India. Political impact on Indian Legislation. Fundamental duties Corruption in politics Electoral reforms Media and politics

	<p style="text-align: center;">Part B: CHART OR MODEL</p> <p>ROLL NO. 1 TO 5 -Fundamental rights ROLL NO. 6 to 10- Fundamental duties ROLL NO. 11 TO 15 Constitution chap book ROLL NO. 16 to 20 Preamble ROLL NO. 21 to 25 Political leaders ROLL NO. 26 to 30 Social reformers ROLL NO. 31 to 35 Some unknown political thinkers ROLL NO. 36 to 40 Mahatma Gandhi movements ROLL NO. 41 to 45 Supreme court ROLL NO. 46 till last roll no. India power in world politics</p> <p style="text-align: center;">PART: C Learning and writing</p> <ul style="list-style-type: none"> • Complete your notes • Learn taught chapters. <p>Submit on the first day after summer break.</p>
Mathematics	<p style="text-align: center;">List of activities</p> <ol style="list-style-type: none"> 1. To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2^n. 2. To verify that for two sets A and B, $n(A \times B) = pq$ and the total number of relations from A to B is 2^{pq}, where $n(A) = p$ and $n(B) = q$. 3. To identify a relation and a function. 4. To distinguish between a Relation and a Function. 5. To verify the relation between the degree measure and the radian measure of an angle. 6. To find the values of sine and cosine functions in second, third and fourth quadrants using their given values in first quadrant.
Informatics Practices (IP) and Computer Science (CS)	<ol style="list-style-type: none"> 1. Complete Class work notes and book's back exercises of chapters 1 & 2 in the notebook. 2. learn and revise chapter 1 and 2 for PA 1 exams 3. Do given Programming codes in the notebook and on the system. 4. Submit printouts of the python codes in a practical file with front page and index page. <p>Programming language – Python</p> <ul style="list-style-type: none"> • Take the input and display the result with appropriate message. • Use proper name of the variables. • Write the statements with first column (Do not indent them). <ol style="list-style-type: none"> 1. Write a Python script to accept two numbers and display their addition, difference, product, division, integer division, remainder and exponent (raise to power). 2. Write a Python script to accept marks in three subjects (out of 100) and

	<p>display its total marks and percentage.</p> <p>3. Write a Python script to accept principal amount, rate of interest and time in years and display simple interest. Note: $S = PRT / 100$</p> <p>4. Write a Python script to accept a number and display square and cube of a number.</p> <p>5. Write a Python script to accept radius of a circle and display its area and circumference.</p> <p>6. Write a Python script to accept base and height of a triangle and display its area. (Area = $\frac{1}{2} * b * h$)</p> <p>7. Write a Python script to accept three sides of a triangle and calculate its area using Heron's formula. $s = (a + b + c) / 2$ $A = \sqrt{s * (s - a) * (s - b) * (s - c)}$</p> <p>8. Write a Python script to accept temperature in Fahrenheit and display it in Celsius. $C = (F - 32) * 5/9$</p> <p>9. Write a Python script to accept time in minutes and display corresponding time in hours and minutes. Example, if Input is 75 minutes, the output is 1 hour 15 minutes.</p> <p>10. Write a Python script to swap (interchange the value) of two numbers. Display two numbers with memory location before and after swapping.</p>																				
Sociology	<p><i>The function of sociology, as of every science, is to reveal that which is hidden. – Pierre Bourdieu</i></p> <p>Prepare and complete your sociology project according to your individual topic.</p> <p><u>(As per CBSE guidelines and instructions given in class.)</u></p> <p>Note: No need to do the binding now. Final binding will be done after verification by the subject teacher after the summer break.</p> <ul style="list-style-type: none">• Complete your sociology notebook.• Revise chapter 1st and prepare for PA I.																				
Accountancy	<p style="text-align: center;">I. Project and Research Work</p> <p>Comprehensive Project - Shivani, decided to start business of fashion garments under the name of M/s Designer Wear from 1st April, 2022. She had savings of ₹ 10,00,00. She invested ₹ 3,00,000 out of her savings and also borrowed ₹ 5,00,000 from State Bank of India. She purchased a commercial space of 500 sq feet for ₹ 5,00,000 The space so purchased was suitably renovated to make it ready as showroom. She purchased furniture and fixtures for ₹ 75,000. Total amount of bank loan is to be repaid in 20 quarterly instalments beginning 30th June, 2022. Annual rate of interest is 12% p.a. Repayment Schedule of Bank Loan in the first year is as follows.</p> <table><tr><th>Due Date</th><th>Principal (₹)</th><th>Interest (₹)</th><th>Installment (₹)</th></tr><tr><td>June 30, 2022</td><td>15,000</td><td>9,000</td><td>24,000</td></tr><tr><td>September 30, 2022</td><td>15,000</td><td>8,550</td><td>23,550</td></tr><tr><td>December 31, 2022</td><td>15,000</td><td>8,100</td><td>23,100</td></tr><tr><td>March 31, 2023</td><td>15,000</td><td>7,650</td><td>22,650</td></tr></table> <p>She started business on 1st April 2022 getting it registered under Goods and</p>	Due Date	Principal (₹)	Interest (₹)	Installment (₹)	June 30, 2022	15,000	9,000	24,000	September 30, 2022	15,000	8,550	23,550	December 31, 2022	15,000	8,100	23,100	March 31, 2023	15,000	7,650	22,650
Due Date	Principal (₹)	Interest (₹)	Installment (₹)																		
June 30, 2022	15,000	9,000	24,000																		
September 30, 2022	15,000	8,550	23,550																		
December 31, 2022	15,000	8,100	23,100																		
March 31, 2023	15,000	7,650	22,650																		

Services Tax (GST). In view of further capital requirement, she further deposited ₹ 2,00,000 in the bank. She paid Security Deposits of ₹ 5,000 for the electricity connection with BSES Rajdhani Power Ltd. and ₹ 2,000 to MTNL for telephone connection. Furniture for ₹ 10,000 was purchased further. All payments were to be made by cheque. All the receipts were in cash and to be deposited in the bank in the morning or next day.

At the end of the year, her results showed the following:

	₹
Total Sales	20,00,000
Total Purchases	17,00,000
Electricity Expenses	40,000
Telephone charges	50,000
Cartage Outwards	60,000
Travelling Expenses	45,000
Business Promotion (Restaurant Bill) Expenses	5,000
Maintenance Expenses	25,000
Miscellaneous Expenses	15,000
Electricity Expenses Payable	20,000

She withdrew ₹ 5,000 by cheque each month for her personal expenses.

Bank Loan was serviced and installments were paid regularly.

1. Journalise the above transactions in the books of M/s Designer Wear, post them into the Ledger and prepare the Trial Balance.
2. Also, prepare its Trading Account, Profit and Loss Account and Balance Sheet. Charge depreciation @ 5% on Building and 10% on Furniture and Fixtures. Closing Stock at the end of the year was ₹ 5,50,000.
3. Prepare Bar Diagrams and Pie Charts showing the expenses.

II. Practice Work

S. No	Chapter Name	Qs. No from the Book
1	Accounting Equation	Qs. No – 15,16,22,23,24 and 25
2	Rules of Debit and Credit	Qs. No – 1,2,3,5,12 and 14
3	Journal	Qs. No – 10,19,25 and 26

- Kindly Note-All written work should be done in fair notebook and it should be hand written.
- The queries related to Holiday Homework can be send to abhayrajput@gmail.com
- All the questions need to be attempted with complete formats and proper accounts/entries.

<p>PHYSICS</p>	<ol style="list-style-type: none"> 1. Make a paper scale of given least count, e.g., 0.2 cm, 0.5 cm. 2. Make an investigatory project on Bernoulli's Principle. 3. NCERT Exercises 1.1 to 3.10.
<p>History</p>	<p style="text-align: center;">GERNERAL GUIDELINES</p> <p>Steps involved in the conduct of the project:</p> <ol style="list-style-type: none"> 1. Choose a Title/Topic 2. Need of the Study, Objective of the Study 3. Hypothesis 4. Content -Timeline, Maps, Mind maps, Pictures, etc. (Organization of Material/Data Present Material/Data) 5. Analysing the Material/Data for Conclusion 6. Draw the Relevant Conclusion 7. Bibliography <p style="text-align: center;">Expected Checklist for the Project Work</p> <ol style="list-style-type: none"> 1. Introduction of topic/ title 2. Identifying the causes, events, consequences and/or remedies 3. Various stakeholders and effect on each of them 4. Advantages and disadvantages of situations or issues identified 5. Short-term and long-term implications of strategies suggested during research 6. Validity, reliability, appropriateness, and relevance of data used for research work and for presentation in the project file 7. Presentation and writing that is succinct and coherent in project file 8. Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc. <p style="text-align: center;">SUGGESTIVE TOPICS FOR PROJECTS</p> <ol style="list-style-type: none"> 1. Facets of the Industrialization in sixteenth- eighteenth centuries. 2. Crusades: causes; rationale; events; outcomes; Holy Alliance 3. Ancient History in depth: Mesopotamia 4. Greek Philosophy and City States 5. Contributions of Roman Civilization 6. The spirit of Renaissance: Manifestation in art; Literature; Sculpture; Influence on Trading Community; Social Fabric; Philosophy; Political Values; Rational Thinking; Existentialism 7. Aspects of Development -South American States /Central American States 8. Different schools of thoughts- Realism: Humanism: Romanticism 9. Piecing together the past of Genghis Khan 10. Myriad Realms of Slavery in ancient, medieval, and modern world 11. History of Aborigines – America /Australia 12. Facets of Modernization – China /Japan/Korea

ECONOMICS	<p>1. Revise ch. 1-4 and complete a fair note book.</p> <p>2. Read ch.5 of statistics and make 10 smq from text.</p> <p>3. You have to conduct a survey among class 10th Students for selecting a stream in class 11th. Prepare a questioner for this.</p>
Biology	<p>1) Prepare short report on :</p> <ol style="list-style-type: none"> Whittakers five kingdom classification Post Complications of Covid 19 Enzymes <p>2) Do the back exercise of NCERT textbook for chapters 1, 2 and 3</p> <p>3) Why viruses are considered as a connecting link between living and non living.</p> <p>4) General Instructions</p> <ol style="list-style-type: none"> Report can be typed or handwritten with pictures. For typed report use font size 14, Times New Roman. Write only on side of the sheet. Use A-4 coloured or white sheets
Legal Studies	<p>➤ Complete your questions and answers in the notebook.</p> <p>➤ Revise the topics covered in class.</p>
ENGLISH CORE (301)	<p><u>ENGLISH LITERATURE:</u></p> <ul style="list-style-type: none"> <u>Traditions and Faith:</u> Investigate a religious or cultural tradition that is important to your family, similar to the grandmother's daily prayers. Write a short essay (200 words) about its significance and how it connects generations. <u>Creative Collage: A Photograph:</u> Create a collage representing the themes of the poem: nostalgia, loss, and the passage of time. Include photographs and short captions or excerpts from the poem to explain each section. <u>Adventure Poster:</u> Design a poster titled "The Adventures of Aram and Mourad," summarizing their escapades with the horse in a visually creative way. <p><u>ENGLISH GRAMMAR:</u></p> <ul style="list-style-type: none"> <u>Tenses Chart:</u> Prepare a detailed chart on all the tenses: Present, Past, and Future (Simple, Continuous, Perfect, and Perfect Continuous). Include examples for each tense. Highlight the structure (e.g., Subject + Verb + Object). <u>Conversation Practice:</u> Write a dialogue between two friends discussing their weekend plans. Use at least three different tenses. <u>DIY DICTIONARY:</u> Create a mini dictionary of 30 New Words and Idioms & Phrases learned, with meanings, sentences and illustrations.

	<p><u>ENGLISH PROJECT WORK:</u></p> <ul style="list-style-type: none"> • <u>Photo Journalism Essay</u>: Select a series of photos documenting Social Justice Issues. Write an essay analyzing the images, discussing their composition, context, and the stories they convey about the human experience. <p><u>The Project-Portfolio may include the following:</u></p> <ul style="list-style-type: none"> • Cover page, with title of project, school details/details of students. • Statement of purpose/objectives/goals. • Certificate of completion under the guidance of the teacher. • Action plan for the completion of assigned tasks. • Materials such as scripts for the written assignments, essays, survey-reports and other material evidence of learning progress and academic accomplishment. • The 800-1000 words Essay//Report. • Student reflection. • Photographs that capture the positive learning experiences of the student. • List of resources/bibliography. <p><u>Submission Deadline:</u></p> <p>1st July 2025 (Monday) No late submissions will be accepted.</p>
PSYCHOLOGY	<ul style="list-style-type: none"> • Kindly read the first chapter – “What is psychology” again and make a chart representing all the psychological approaches. • Complete NCERT based question answers in your fair notebook. • Complete the Assignment of the chapter in your fair notebook. • Make a daily diary in which you note down your thoughts, emotions & behaviors. Reflect on why you might be feeling or behaving in certain ways. • Observe five people and write your observations about their behavior. (Don’t mention his/ her name and identity) about them in 200 words each. You can include his/ her mental process, behavior and experience.
Painting	<p>Theme: School Heritage and Culture through Architecture.</p> <p>Create a painting of any building or structure within the school campus (e.g. main gate, library, old building and garden area etc.) that reflects the history, culture and values of the school.</p> <ul style="list-style-type: none"> • You may use watercolors, acrylics, poster colors or colored pencils • Size: Standard A3 sheet.