

SUMMER HOLIDAY HOMEWORK (2026-2027)

ENGLISH

BUSINESS STUDIES

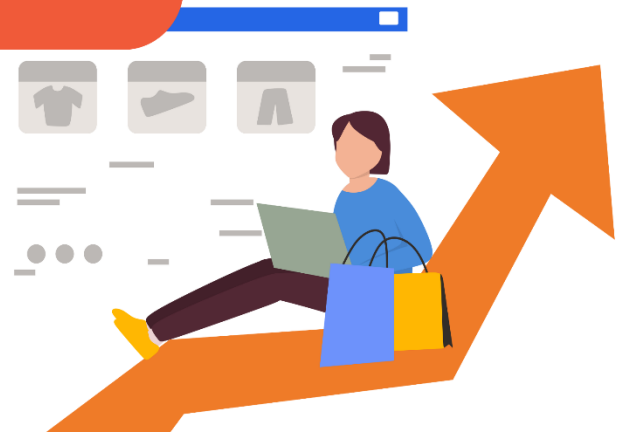
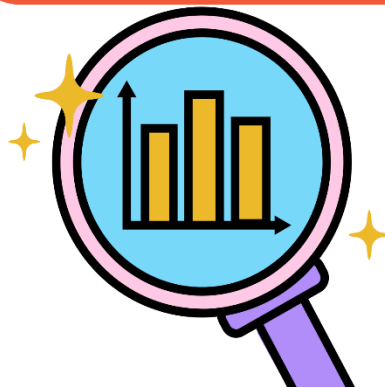
ACCOUNTS

ECONOMICS

MATHS

SANSKRIT

XII



Class: XII (COMMERCE)

Session: 2026 – 2027

SUBJECT – ENGLISH

Dear Students,

As summer break begins, take this time to relax, reflect, and recharge. Alongside rest and recreation, let this be an opportunity to grow intellectually, creatively, and personally.

Your holiday homework is designed to enrich your learning beyond the classroom. Approach it with sincerity and originality. Ensure your work is neat, well-organized, and aligns with the subject-specific guidelines.

In addition, we encourage you to:

- Read newspapers to stay informed about current affairs.
- Improve handwriting by writing a page in English and Hindi daily.
- Read at least two meaningful books and create a personal word journal.
- Be proactive and responsible—support your family and community in small but meaningful ways.

"Let summer light your inner flame,

Seek new knowledge, rise to fame.

Pause, reflect, explore, and read—

This season, plant your learning seed."

Wishing you a productive, joyful, and refreshing holiday!

TASK 1:

Podcast Summaries and Thematic Analysis

A Project Report is a compilation of the work that you produce during the process of working on a project. You are required to prepare a Project Report, based on the guidelines given, and submit the project, having minimum 8-10 pages, to your respective English teacher for evaluation.

Directions:

- Choose ****any three themes**** from the suggested list below, ensuring that each theme is from a different chapter.
- For each chosen theme, listen to ****two podcasts**** that relate to it.

- Write a **summary** of each podcast in approximately **250 words**. In your summary, address the following:
 - The main ideas presented in the podcast.
 - How the content of the podcast relates to the corresponding chapter and its themes.

Project Guidelines:

- You may use any medium: pencil, watercolours, pastels, digital tools, etc.
- Use A4 size coloured / designer paper sheets for the project.
- Neatness, originality, and relevance to the theme will be assessed.
- Submit the assignments in a file /folder labelled with your name, class, and section.
- Parameters for Assessment: - Content, language and accuracy.
- Use as many pictures /photographs as you require.
- Use coloured sketch pens for headings and content.
- The project should be hand-written and spiral bound
- Completed project file is to be submitted along with holiday homework.
- Originality of the work will be appreciated.

Suggested Themes:

****Prose from Flamingo:**

1. **The Last Lesson**: Nostalgia, loss of freedom, importance of language and culture.
2. **Lost Spring**: Child labour, loss of childhood, struggle for education.

****Poetry from Flamingo:**

1. **My Mother at Sixty-Six**: Aging, mortality, mother-child relationship.
2. **Keeping Quiet**: Reflection, introspection, importance of silence.
3. **A Thing of Beauty**: Beauty, truth, enduring power of art.
4. **Aunt Jennifer's Tigers**: Female empowerment, creativity, patriarchy.

****Supplementary Reader (from Vistas):**

1. **The Third Level**: Time travel, escapism, fantasy, longing for simpler times.
2. **On the Face of it**: Appearance vs. reality, empathy, and understanding.

The Project must include the following compulsory pages:

1. Title Page
2. Index Page
3. Acknowledgement

ACKNOWLEDGEMENT

I would like to extend my sincere and heartfelt obligation towards all those who have helped me in making this project. Without their active guidance, help, cooperation and encouragement, I would not have been able to present the project on time.

I am extremely thankful and pay my sincere gratitude to my teacher _____ for his/ her valuable guidance and support for completion of this project.

I also acknowledge with a deep sense of reverence, my gratitude towards my parents, other faculty members of the school and friends for their valuable suggestions given to me in completing the project.

(Signature of the Student)

Date:

Place:

4. Certificate of Completion

CERTIFICATE

This is to certify that the project work on _____ based on the curriculum of BSB has been completed by _____ of Class XII Section _____ of Acharyakulam, Patanjali Yogpeeth, Haridwar, and Uttarakhand.

The above-mentioned project work has been completed under my guidance during the academic year 2026-27.

Signature of Teacher

6. Objective

5. Bibliography / References

Task 2:

(Competency Based Questions)

Direction: Write the answers of the following competency-based questions in not more than 120 words in your holiday notebook.

The Last Lesson

Q1. The Last Lesson: Create an illustrated diary entry of Franz capturing his emotions on the last day of French lessons. Add symbolic visuals (e.g., a fading clock, a withering flower) to depict the loss of language and culture.

Q2. Flamingo: Prose and Poetry (Alphonse Daudet): The Last Lesson (Analytical Thinking) – Franz realizes the value of his mother tongue only when it is being taken away. If a similar decree were passed in your region, how would the youth react? Reflect on the importance of linguistic identity in a globalized world.

Q3. M. Hamel wears his fine Sunday clothes on the last day. Evaluate how this act transforms him from a strict taskmaster into a symbol profound patriotism and grief.

The Lost Spring

Q4. Lost Spring (Anees Jung) (Thematic Analysis): The bangle-makers of Ferozabad and the rag-pickers of Seemapuri are trapped in a vicious circle of poverty and tradition Compare their plights and evaluate how systemic apathy contributes to their loss of childhood.

A Thing of Beauty...

Q5. A Thing of Beauty (John Keats) (Poetic Analysis): Keats suggests that a thing of beauty provides eternal joy and acts as a “bower quiet for us” against life’s hardships. Identify any three everyday objects around you that serve as your personal “thing of beauty” and explain why?

The Third Level

Q6. The Third Level (Jack Finney) Hypothetical Inquiry: Charley escapes into an 1894 world to escape the insecurities, and stress of the modern world. If you were to build up your own “third level” to escape modern pressures, what era or place would it transport you to and why?

The Last Lesson and The Third Level

Q7. Character Social Media Profile: Choose two characters from your syllabus (e.g. M. Hamel and Charley) and draft creative, detailed social media profiles (e.g., Facebook or Instagram bios, recent posts and comments) that reflect their personalities, struggles and character.

Keeping Quiet

Q8. Rohan is a tech -entrepreneur who works 18 hours a day. He constantly feels burnt out, isolated from his family, and anxious about his company’s growth. If Pablo Neruda were to evaluate Rohan’s lifestyle, what advice would the poet give him based on the poem “Keeping Quiet”?

Aunt Jennifer’s Tigers

Q9. Adrienne Rich’s poem is a critique of a society that binds women socially, emotionally, and physically. Based on your reading of the poem, evaluate how the symbols of “uncle’s wedding band” and the “tigers” encapsulate the conflict between oppression and liberation.

My Mother at Sixty-six

Q10. “My Mother at Sixty-six” by Kamla Das is a poignant poem that explores the themes of aging, mortality, and the enduring love between a mother and child. Substantiate the statement.

Revise and practice all the work done in the class (Reference Books, Notebooks, Assignments and Worksheets)

SUBJECT – BUSINESS STUDIES

Task 1: Prepare a Project File on the topic of Marketing Management Students have to choose one product/service which the students may like to manufacture/provide keeping in mind the following:

1. Why have they selected this product/service?
2. Find out '5' competitive brands that exist in the market.
3. What permission and licences would be required to make the product?
4. What are your competitors' Unique Selling Proposition. [U.S.P.]?
5. Does your product have any range of details?
6. What is the name of your product?
7. Enlist its features.
8. Draw the 'Label' of your product.
9. Draw a logo for your product.
10. Draft a tag line.
11. What is the selling price of your competitor's product?
12. (i) Selling price to consumer (ii) Selling price to retailer (iii) Selling price to wholesaler What is the profit margin in percentage to the Manufacturer. Wholesaler. Retailer.
13. How will your product be packaged?
14. Which channel of distribution are you going to use? Give reasons for selection?
15. Decisions related to warehousing, state reasons.
16. What is going to be your selling price? (i) To consumer (ii) To retailer (iii) To wholesaler
17. List 5 ways of promoting your product.
18. Any schemes for (i) The wholesaler (ii) The retailer (iii) The consumer
19. What is going to be your 'U.S.P'?
20. What means of transport you will use and why?
21. Draft a social message for your label.
22. What cost effective techniques will you follow for your product.
23. What cost effective techniques will you follow for your promotion plan.

Task 2: WORKSHEET

INSTRUCTIONS

1. Solve the given case study questions in your notebook.
2. Revise and practice all the work completed till summer break.

Q1 : Ananya is the Managing Director of 'Global Tech Ltd.' She sets the targets for the upcoming year for the entire organization, ensuring that the company's vision is

communicated down the line. To achieve these targets, her production manager, Raghav, coordinates the efforts of his team, while the supervisor, Sham, directly oversees the workers on the factory floor. Despite economic fluctuations, the company has successfully maintained its market share due to the timely decisions taken by the management team.

- a) Identify and explain the characteristic of management highlighted in the line: *"Despite economic fluctuations, the company has successfully maintained its market share due to the timely decisions..."*
- b) Identify the three levels of management working in 'Global Tech Ltd.' by quoting lines from the text.

Q2: 'Aura Cosmetics' aims to maximize its profits by producing high-quality skincare products. However, the management ensures that the chemical waste generated during production is treated properly before disposal, and they run a free crèche facility for the children of their factory workers.

- (a) State the objective of management being fulfilled by treating chemical waste and running a crèche.
- (b) Name and explain two other objectives of management.

Q3: In 'Vedic Foods Ltd.', the General Manager, Suresh, believes that every employee should report to only one superior to avoid confusion and overlapping of work. However, he also believes that during an absolute emergency, a worker from the packaging department should be able to contact the manager of the dispatch department directly, bypassing the established line of authority, to prevent a major delay.

- (a) Identify the principle of management that Suresh wants to follow generally to avoid confusion.
- (b) Identify the concept/exception referred to in the text that allows direct contact during an emergency. Under which main principle does this fall?

Q 4: Karan, a factory manager at an automobile plant, noticed that workers were getting exhausted quickly and their productivity declined in the second half of the day. He conducted a study to observe the workers and determined the standard time required to complete a task, the optimum number of rest intervals needed, and eliminated unnecessary movements like bending and reaching for tools repeatedly.

- (a) Identify and explain the three techniques of Scientific Management used by Karan to improve efficiency.

Q5: Following the government's announcement of heavy subsidies on electric vehicles (EVs) and increased taxes on diesel cars, 'Turbo Motors' shifted its focus from manufacturing diesel SUVs to developing affordable electric hatchbacks. Consequently, their sales surged by 40% in the next quarter.

- (a) Identify and explain the two dimensions of the business environment mentioned in the above case.
- (b) Which feature of the business environment is reflected when a change in government policy directly affects the sales of 'Turbo Motors'?

Q6: 'Nutan Clothing' was a leading brand for traditional wear. However, with the rapid rise of e-commerce platforms and a sudden shift in consumer preference toward sustainable, western fusion clothing, the company's sales plummeted. The management confessed that they failed to anticipate these rapid, unpredictable market changes.

(a) Identify and explain the two features of the business environment highlighted in this case.

Q 7: The management of 'Zenith Electronics' wants to increase its market share by **15%** in the next financial year. To achieve this, the marketing team brainstormed various alternatives like aggressive digital advertising, reducing prices, or expanding the dealer network. After evaluating the pros and cons of each option in terms of cost and feasibility, they decided to combine digital advertising with price reduction. They then developed a detailed budget and a timeline for the campaign.

(a) Identify the steps in the planning process followed by 'Zenith Electronics' by quoting relevant lines.

(b) State the next step that the management needs to take to ensure the plan succeeds.

Q8: Suhail, a sales manager, strictly follows the annual sales plan drafted by the top management. During a sudden market crunch, a major competitor lowered their prices significantly. Suhail wanted to offer a spot discount to retain his loyal corporate clients, but he could not do so as the rigid company plan did not permit any deviation from the pre-fixed pricing strategy. As a result, the company lost valuable clients.

(a) Identify and explain the two limitations of planning highlighted in the given case.

Q9: 'Craft & Creation Ltd.' manufactures Jute Bags, Leather Footwear, and Wooden Toys. Initially, the company had a structure where activities were grouped based on functions like Production, Marketing, and Finance. However, as the product lines expanded, the management realized that each product line required distinct marketing strategies and specialized production facilities. They decided to restructure the company by creating separate business units for Jute Bags, Footwear, and Toys, each headed by a separate manager.

(a) Identify the organizational structure initially followed by the company and the new structure adopted later.

(b) State two advantages of the new organizational structure adopted by the company.

Q10: Raman, the CEO of 'Alpha Logistics', is overburdened with routine operational decisions, leaving him with no time to plan for the company's long-term expansion. To solve this, he shares his authority to handle daily transport issues with his regional managers. Going a step further, the top management passes a policy decision allowing regional managers to take independent financial decisions up to ₹5,00,000 without seeking approval from the head office.

(a) Identify and differentiate between the two concepts of organizing highlighted in the above case.

(b) Quote the lines that indicate the application of each concept.

SUBJECT - ACCOUNTANCY

Task 1: Prepare a specific project based on financial statement analysis of a company covering any two aspects from the following:

1. Comparative and common size financial statements
2. Accounting Ratios
3. Segment Reports
4. Cash Flow Statements

Task 2: WORKSHEET

INSTRUCTIONS

1. Solve the given case study questions in your notebook also show solution for each mcq.
2. Revise and practice all the work completed till summer break.

Q1. Alpha Ltd. invited applications for issuing 50,000 equity shares of ₹10 each at a premium of ₹2 per share. The amount was payable as follows:

- On Application: ₹3
- On Allotment: ₹5 (including premium)
- On First & Final Call: Balance amount

Applications were received for 45,000 shares and allotment was made to all the applicants. All sums due were received except the allotment and call money from Vikram, who held 1,000 shares. His shares were later forfeited.

Questions:

1. What is the total amount payable on the First & Final Call per share?
(a) ₹4 (b) ₹2 (c) ₹5 (d) ₹3
2. What amount will be credited to the Securities Premium Account upon allotment?
(a) ₹1,000,000 (b) ₹90,000 (c) ₹80,000 (d) ₹1,00,000
3. By what amount will the Share Capital Account be debited at the time of forfeiture of Vikram's shares?
(a) ₹10,000 (b) ₹12,000 (c) ₹8,000 (d) ₹7,000
4. What is the minimum number of shares for which applications should have been received to proceed with allotment under SEBI guidelines?
(a) 50,000 shares (b) 40,000 shares (c) 45,000 shares (d) 42,500 shares

Q2. Bright Vision Ltd. issued 100,000 equity shares of ₹10 each. The terms of payment were: ₹2 on application, ₹4 on allotment, and ₹4 on call. Applications were received for 150,000 shares. High-volume applicants of 30,000 shares were rejected outright and their money refunded. Pro-rata allotment was made to the remaining applicants.

Raman, who was allotted 2,000 shares, failed to pay the allotment money. His shares were immediately forfeited before making the final call.

Questions:

1. What is the pro-rata ratio applied to the accepted applicants?
 - a. 3:2
 - b. 5:4
 - c. 6:5
 - d. 4:3
2. How many shares did Raman apply for?
 - a. 2,400 shares
 - b. 2,500 shares
 - c. 3,000 shares
 - d. 2,200 shares
3. What was the excess application money adjusted towards Raman's allotment?
 - a. ₹800
 - b. ₹1,000
 - c. ₹1,200
 - d. ₹2,000
4. What net amount was received by the company on allotment?
 - a. ₹3,60,000
 - b. ₹3,53,200
 - c. ₹3,54,000
 - d. ₹4,00,000

Q3. Karan Enterprises Ltd. purchased running business assets worth ₹12,00,000 and took over liabilities of ₹2,00,000 from Shiva Traders. The purchase consideration was agreed at ₹11,00,000. Karan Enterprises Ltd. settled the purchase consideration by issuing equity shares of ₹100 each at a premium of 10%.

Questions:

- 2) What is the value of Goodwill or Capital Reserve generated in this transaction?
 - a. Goodwill of ₹1,00,000
 - b. Goodwill of ₹2,00,000
 - c. Capital Reserve of ₹1,00,000
 - d. Capital Reserve of ₹2,00,000
 - 3) How many equity shares will be issued to Shiva Traders?
 - a. 11,000 shares
 - b. 12,000 shares
 - c. 10,000 shares
 - d. 9,000 shares
 - 4) What amount will be credited to the Securities Premium Account?
 - a. ₹1,10,000
 - b. ₹1,00,000
 - c. ₹1,20,000
 - d. ₹90,000
 - 5) If the shares were instead issued at a 12% discount (hypothetically under specific provisions), which account would be debited for the discount?
 - a. Statement of Profit & Loss
 - b. Discount on Issue of Shares Account
 - c. Capital Reserve Account
 - d. Shares cannot be issued at a discount to vendors under regular provisions of Companies Act, 2013
- Q4. X Ltd. forfeited 300 equity shares of ₹10 each, fully called up, held by Mohan for non-payment of allotment money of ₹3 per share and first & final call money of ₹4 per share. Out of these, 200 shares were re-issued to Sohan as fully paid up for ₹8 per share.

Questions:

1. What amount was originally received by the company on these 300 shares?
(a) ₹2,100 (b) ₹1,200 (c) ₹900 (d) ₹1,500
2. What amount will be credited to the Share Forfeiture Account at the time of forfeiture?
(a) ₹900 (b) ₹1,200 (c) ₹2,100 (d) ₹3,000
3. What is the loss suffered by the company per share on the re-issue of shares?
(a) ₹3 (b) ₹2 (c) ₹4 (d) ₹1
4. What amount will be transferred to the Capital Reserve Account?
(a) ₹600 (b) ₹400 (c) ₹200 (d) ₹900

Q5. Zenith Ltd. offered 20,000 shares of ₹100 each to the public. Applications were received for 30,000 shares. Pro-rata allotment was made to all applicants.

Group A: Applicants of 24,000 shares were allotted 16,000 shares.

Group B: Applicants of 6,000 shares were allotted 4,000 shares.

Amit, from Group A, who was allotted 400 shares, failed to pay the allotment money of ₹30 per share. His shares were forfeited immediately.

Questions:

1. How many shares did Amit apply for?
(a) 500 shares (b) 600 shares (c) 450 shares (d) 550 shares
2. What was the excess application money (Application fee = ₹20) paid by Amit?
(a) ₹2,000 (b) ₹4,000 (c) ₹3,000 (d) ₹1,000
3. What is the net amount due from Amit on allotment after adjusting excess application money?
(a) ₹12,000 (b) ₹10,000 (c) ₹8,000 (d) ₹6,000
4. If all of Amit's shares are re-issued at ₹90 per share as fully paid up, what amount will go to Capital Reserve?
(a) ₹6,000 (b) ₹10,000 (c) ₹4,00,0 (d) ₹2,000

Q6 Star Metals Ltd. forfeited 800 equity shares of ₹10 each issued at a premium of ₹3 per share for non-payment of allotment money of ₹5 per share (including premium) and the first call of ₹2 per share. The final call of ₹2 per share has not yet been made.

Questions:

1. What is the total called-up value per share up to the first call?
(a) ₹10 (b) ₹8 (c) ₹7 (d) ₹6

2. Will the Securities Premium Account be debited at the time of forfeiture? If yes, by what amount?

- (a) No, it will not be debited. (b) Yes, by ₹2,400.
(c) Yes, by ₹1,600. (d) Yes, by ₹800.

3. What amount will be credited to the Share Forfeiture Account?

- (a) ₹3,200 (b) ₹2,400 (c) ₹1,600 (d) ₹4,000

4. If these shares are re-issued at ₹7 per share called up for ₹8, what is the value credited to Share Capital per share?

- (a) ₹7 (b) ₹8 (c) ₹10 (d) ₹3

Q7. Max India Ltd. forfeited 500 shares of ₹10 each issued at a premium of ₹2 per share (payable on application). The company received application money (₹5 per share including premium) and allotment money (₹3 per share). However, the shareholder failed to pay the first & final call of ₹4 per share.

Questions:

1. Should the Securities Premium Account be debited during forfeiture?

- (a) Yes, because shares are forfeited.
(b) No, because the premium amount was already received.
(c) Yes, but only partially.
(d) It depends on company policy.

2. What amount will be credited to the Share Forfeiture Account?

- (a) ₹3,000 (b) ₹4,000 (c) ₹2,500 (d) ₹2,000

3. What is the balance left in the Share Forfeiture Account if 300 of these shares are re-issued at a discount of ₹2 per share?

- (a) ₹1,800 (b) ₹1,200 (c) ₹600 (d) ₹900

4. What is the primary balance sheet head under which the "Share Forfeiture Account" is shown?

- (a) Reserves & Surplus (b) Share Capital (Added to paid-up capital)
(c) Other Current Liabilities (d) Non-Current Assets

Q8. Tech Nova Solutions Ltd. decided to reward its key software engineers and directors by offering them 10,000 equity shares of ₹10 each at a value of ₹6 per share in recognition of their intellectual property rights provided to the company. Simultaneously, the company issued 5,000 shares to its employees under an Employee Stock Option Plan (ESOP) at a predetermined price.

Questions:

1. The shares issued to the engineers for intellectual property rights are known as:
(a) Bonus Shares (b) Right Shares
(c) Sweat Equity Shares (d) Preference Shares
2. What is the minimum lock-in period for Sweat Equity shares issued to directors or employees under statutory rules?
(a) 1 Year (b) 3 Years (c) 5 Years (d) No lock-in period
3. The difference between the market price and the option price under ESOP is debited to which account?
(a) Employee Compensation Expense Account
(b) Share Capital Account
(c) Securities Premium Account
(d) General Reserve Account
4. Sweat Equity shares can be issued for:
(a) Cash only
(b) Consideration other than cash / Providing know-how
(c) Clearing past bank loans
(d) Buying government bonds

Q9. Vibrant Ltd. was registered with an authorized capital of ₹50,00,000 divided into 5,00,000 equity shares of ₹10 each. The company issued 2,00,000 equity shares to the public. Applications were received for 1,95,000 shares. All calls were made and duly received except the final call of ₹2 per share on 5,00,0 shares.

Questions:

1. What is the amount of 'Issued Capital' to be shown in the Notes to Accounts?
(a) ₹50,00,000 (b) ₹20,0,000 (c) ₹19,50,000 (d) ₹19,40,000
2. Under which category of Share Capital will the 1,90,000 fully paid shares be shown?
(a) Subscribed and fully paid-up (b) Subscribed but not fully paid-up
(c) Issued Capital (d) Authorized Capital
3. What is the total amount of Calls-in-Arrears?
(a) ₹5,000 (b) ₹10,000 (c) ₹2,000 (d) ₹1,000
4. What will be the final net amount shown under 'Subscribed Capital' in the Balance Sheet?

- (a) ₹19,50,000 (b) ₹19,40,000 (c) ₹19,00,000 (d) ₹20,00,000

Q10. Metro Trends Ltd. forfeited 400 shares of ₹10 each (fully called up) for non-payment of final call of ₹3 per share. All of these shares were subsequently re-issued to Vinay at ₹12 per share as fully paid up.

Questions:

1. What was the amount forfeited per share?

- (a) ₹3 (b) ₹7 (c) ₹10 (d) ₹12

2. What is the total amount credited to the Securities Premium Account at the time of re-issue?

- (a) ₹1,200 (b) ₹800 (c) ₹400 (d) ₹0

3. How much money from the Share Forfeiture account was used/utilized during the re-issue?

- (a) ₹1,200 (b) ₹800 (c) ₹0 (d) ₹2,800

4. What is the total amount transferred to the Capital Reserve Account?

- (a) ₹2,800 (b) ₹2,000 (c) ₹1,600 (d) ₹4,000

SUBJECT- ECONOMICS

Task 1. Prepare a project file on any of the following given topics.

Here's a point-wise guidance to prepare your Class 12 Economics project file for viva:

1. Choose a Relevant Topic

Pick a topic from the syllabus (e.g., GST, Demonetisation, Poverty, Sustainable Development, Exchange Rates, or a case study on a specific industry). Ensure it's specific and data-driven.

2. Follow the Prescribed Structure

- Cover page (Title, your name, class, roll no., school, year)
- Acknowledgement (teacher, parents, peers)
- Index/Table of Contents (page-wise listing)
- Objective/Aim of the study
- Introduction (basic concepts and need for the study)
- Methodology (how data collected – primary survey or secondary sources)
- Data Presentation (tables, graphs, pie charts, etc.)
- Analysis and Interpretation (explain what the data shows)
- Findings/Conclusions
- Suggestions/Recommendations (practical solutions)
- Bibliography (list of sources – books, websites, reports)
- Appendix (questionnaire, raw data, if any)

3. Use Authentic Data

Rely on reports from RBI, NITI Aayog, Economic Survey, or conduct a small local survey. Avoid vague or outdated statistics.

4. Keep It Neat & Visual

- Write or print neatly.
- Use headings, subheadings, and bullet points.
- Include 3–5 graphs/charts (hand-drawn or printed).
- Limit text – use diagrams for better explanation.

5. Add Real-Life Examples

For example, if you pick “Price Elasticity,” use a nearby shop’s price change data. Real examples impress examiners.

6. Prepare for Common Viva Questions

- Why did you choose this topic?
- What is the main finding of your project?
- How did you collect data?
- Define key terms from your topic (e.g., “What is the Laffer curve?” if you did GST).
- What are the limitations of your study?
- Suggest one policy change based on your conclusion.

7. Know the Project Inside Out

Read your own file 2–3 times. Mark key pages (graphs, findings) with sticky notes for quick reference during viva.

8. Maintain a Neat File

Use a spiral-bound or transparent front-cover file. No torn pages. Use uniform font and spacing if typed.

Topics are given below–

Class XII	
• Micro and Small Scale Industries	• Food Supply Channel in India
• Contemporary Employment situation in India	• Disinvestment policy of the government
• Goods and Services Tax Act and its Impact on GDP	• Health Expenditure (of any state)
• Human Development Index	• Inclusive Growth Strategy
• Self-help group	• Trends in Credit availability in India
• Monetary Policy Committee and its functions	• Role of RBI in Control of Credit
• Government Budget & its Components	• Trends in budgetary condition of India
• Exchange Rate determination – Methods and Techniques	• Currency War – reasons and repercussions
• Livestock – Backbone of Rural India	• Alternate fuel – types and importance
• Sarva Shiksha Abhiyan – Cost Ratio Benefits	• Golden Quadrilateral- Cost ratio benefit
• Minimum Support Prices	• Relation between Stock Price Index and Economic Health of a Nation
• Waste Management in India – Need of the hour	• Minimum Wage Rate – Approach and Application
• Digital India- Step towards the future	• Rain Water Harvesting – A solution to water crisis
• Vertical Farming – An alternate way	• Silk Route- Revival of the past
• Make in India – The way ahead	• Bumper Production- Boon or Bane for the farmer
• Rise of Concrete Jungle- Trend Analysis	• Organic Farming – Back to the Nature
• Aatmanirbhar Bharat	• e-Rupee (e- ₹)
• Sri Lanka's Economic Crisis	• Sustainable Development Goals (SDG's)
• Environmental Crisis	• Comparative Study of Economies (Maximum three economies)
• New Education Policy (NEP) 2020: A Promise for a New Education System	• G-20: Inclusive and Action Oriented
• Amrit Kaal: Empowered and Inclusive Economy	• Cashless Economy
• Any other newspaper article and its evaluation on basis of economic principles	• Any other topic

Task 2: WORKSHEET

INSTRUCTIONS

1. Write the answers of these questions in your notebook.
2. Revise and practice all the work completed till summer break.

Q1. “India’s agricultural sector was stagnant but commercialized during the British era.”
Justify this statement using two specific facts about cropping patterns and land revenue systems. Then suggest one reason why commercialization did NOT lead to improved farmer incomes.

Q2. A new startup in 1965 wants to produce bicycles. Under the IPR 1956, it must obtain a license. The government denies it, citing that an existing public sector unit already meets demand.

- (a) Which feature of India’s industrial policy is reflected here?
- (b) Explain any one advantage and one disadvantage of this policy for consumers.

Q3. Compare the impact of the Green Revolution on Punjab vs. Bihar in terms of:

- (a) Infrastructure development (1 point)
- (b) small farmer participation (1 point)
- (c) What lesson does this contrast teach about technology-led growth strategies?

Q4. The table below shows India's foreign exchange reserves (in billion USD):

· March 1990:	1.2
· March 1992:	5.6
· March 1995:	20.3

- (a) What crisis does the 1990 figure relate to?
- (b) Name one LPG reform that directly helped boost reserves by 1992.
- (c) Suggest how higher reserves in 1995 would affect India's ability to import crude oil.

Q5. An economist argues: "Disinvestment of public sector units was necessary, but not sufficient, for industrial growth in the 1990s."

- (a) Provide one valid reason in favor of disinvestment.
- (b) Provide one reason why disinvestment alone could not solve all industrial problems.

Q6. If the Government of India reduces the GST (Indirect Tax) on electronic goods, how will this impact the relationship between GDP at Market Price and GDP at Factor Cost for that industry? Explain your reasoning

Q7. Explain why the following are not included in National Income:

- Pocket money given by a parent to a child.
- Scholarship given to a student by the government.
- Old age pension.

Based on the "Income Method," which specific type of income is included?

Q8. A farmer sells wheat to a flour mill for ₹50 lakhs. The mill processes it into flour and sells it to a bakery for ₹70 lakhs. The bakery makes bread and sells it to final consumers for ₹100 lakhs.

- (a) Calculate the contribution of these transactions to National Income using the Value Added Method.
- (b) Why is the simple sum of sales ($50+70+100 = ₹220$ lakhs) an incorrect measure of National Income?

Q9. The Reserve Bank of India observes that the inflation rate has crossed 7%, driven by high demand. As the Monetary Policy Committee (MPC) member, suggest two

quantitative instruments and explain the mechanism of how raising them will control the money supply.

Q10. Imagine a rural economy where money has suddenly lost its value. A farmer has 100 kg of rice but needs medicine and a haircut. Explain the three main problems (lack of double coincidence, lack of common measure, and indivisibility) this farmer will face in trying to survive without money.

SUBJECT: MATHEMATICS

General Instructions:

- (i) Homework is divided in two sections A and B. Section A is related the subjective competency based, source integrated and critical thinking-based questions and section B is related the lab activity in Mathematics for file record.
- (ii) Complete the homework in separate note book for section A and activities are complete in Maths Lab Activity file, if graph or colored paper or any relevant material required then first make and paste it on with respective activity.
- (iii) Write your name, class, section, subject, date of submission and roll number on cover page of homework.
- (iv) Write the all steps, formula and explanation with solutions of questions.
- (v) Try to keep the work neat, clean and decorative and answer the questions exactly as asked.

SECTION-A

1. To simplify Inverse trigonometric expression, following substitution table can use

If use see	use the sub	so that	and
$\sqrt{a^2 - x^2}$	$x = a \sin \theta$	$dx = a \cos \theta d\theta$	$\sqrt{a^2 - x^2} = a \cos \theta$
$\sqrt{a^2 + x^2}$	$x = a \tan \theta$	$dx = a \sec^2 \theta d\theta$	$\sqrt{a^2 + x^2} = a \sec \theta$
$\sqrt{x^2 - a^2}$	$x = a \sec \theta$	$dx = a \sec \theta \tan \theta d\theta$	$\sqrt{x^2 - a^2} = a \tan \theta$

Based on the above information, answer the following question.

- (i) Prove that: $\tan^{-1} \frac{\sqrt{1+\cos x} + \sqrt{1-\cos x}}{\sqrt{1+\cos x} - \sqrt{1-\cos x}} = \frac{\pi}{4} - \frac{x}{2}$, $\pi < x < \frac{3\pi}{2}$
- (ii) Prove that: $\cos^{-1} x + \cos^{-1} \left\{ \frac{x}{2} + \frac{\sqrt{3-3x^2}}{2} \right\} = \frac{\pi}{2}$, $\frac{1}{2} \leq x \leq 1$
- (iii) Find derivative of $\tan^{-1} \frac{\sqrt{1+x^2}-1}{x}$ w. r. t. x after simplification. ($x \neq 0$)
- (iv) Simplify and verified: $\tan^{-1} \left(\frac{\sqrt{1+\cos x} + \sqrt{1-\cos x}}{\sqrt{1+\cos x} - \sqrt{1-\cos x}} \right)$, $\pi < x < \frac{3\pi}{2}$

2. A student of class XII, multiplies the two matrices A and B where,

$$A = \begin{bmatrix} 1 & -1 & 2 \\ 0 & 2 & -3 \\ 3 & -2 & 4 \end{bmatrix} \text{ and } B = \begin{bmatrix} -2 & 0 & 1 \\ 9 & 2 & -3 \\ 6 & 1 & -2 \end{bmatrix} \text{ later on be uses the product } AB \text{ in solving}$$

the system of equations

$$x - y + 2z = 1, 2y - 3z = 1 \text{ and } 3x - 2y + 4z = 2$$

- (i) Find the product AB
- (ii) Find the value of A^{-1} by use the product of AB.
- (iii) Write the solution of given system of equations by using the product AB.
- (iv) Find the value of $x + y + z$

3. Sumit has a doubt in the continuity and differentiability problem, but due to COVID-19 he is unable to meet with his teachers or friends. So he decided to ask his doubt with his friends Sunita and Vikram with the help of video call. Sunita said that the given function is continuous for all the real value of x while Vikram said that the function is continuous for all the real value of x except at $x = 3$.

The given function is $f(x) = \frac{x^2-9}{x-3}$

Based on the above information, answer the following questions:

- (a) Whose answer is correct?
 - (b) Find the derivative of the given function with respect to x .
 - (c) Find the value of $f'(3)$.
 - (d) Find the second differentiation of the given function with respect to x .
5. A potter made a mud vessel, where the shape of the pot is based on $f(x) = |x - 3| + |x - 2|$, where $f(x)$ represents the height of the pot.



- (a) When $x > 4$ What will be the height in terms of x ?
 - (b) What is $\frac{dy}{dx}$ at $x = 3$?
 - (c) When the x value lies between $(2, 3)$ then the function is _____
 - (d) If the potter is trying to make a pot using the function $f(x) = [x]$, will he get a pot or not? Why?
6. Two schools A and B want to award their selected students on the values of Honesty, Hard work and Punctuality. The school A wants to award ₹ x each, ₹ y each and ₹ z each for the three respective values to its 3, 2 and 1 students respectively with a total award money of ₹ 2200. School B wants to spend ₹ 3100 to award its 4, 1 and 3 students on the respective values (by giving the same award money to the three values as school A). The total amount of award for one prize on each value is ₹ 1200.



Using the concept of matrices and determinants, answer the following questions.

- (a) What is the award money for Honesty?

- (b) What is the award money for Punctuality?
- (c) What is the award money for Hard work?
- (d) If a matrix P is both symmetric and skew-symmetric, then find $|P|$.

7. To promote the usage of house toilets in villages, especially for women, are organisations tried to generate awareness among the villagers through (i) house calls (ii) letters, and (iii) announcements.



The cost for each mode per attempt is given below.

(i) ₹ 50 (ii) ₹ 20 (iii) ₹ 40 The number of attempts made in villages X, Y, and Z is given below:

	(i)	(ii)	(iii)
X	400	300	100
Y	300	250	75
Z	500	400	150

Also, the chance of making toilets corresponding to one attempt of given modes is:

(i) 2% (ii) 4% (iii) 20% Let A, B, and C be the cost incurred by organisation in three villages respectively.

Based on the above information answer the following questions:

- (i) Form a required matrix on the basis of the given information.
- (ii) From a matrix, related to the number of toilets expected in villagers X, Y, and Z after the promotion campaign.
- (iii) What is the total amount spent by the organisation in all three villages X, Y, and Z?

Or

What is the total no.of toilets expected after the promotion campaign?

8. Sherlin and Danju are playing Ludo at home during Covid-19. While rolling the dice, Sherlin's sister Raji observed and noted that possible outcomes of the throw every time belongs to set $\{1, 2, 3, 4, 5, 6\}$. Let A be the set of players while B be the set of all possible outcomes.



$$A = \{S, D\}, B = \{1, 2, 3, 4, 5, 6\}$$

- I) Let $R : B \rightarrow B$ be defined by $R = \{(x, y) : y \text{ is divisible by } x\}$. Show that relation R is reflexive and transitive but not symmetric.
- II) Let R be a relation on B defined by $R = \{(1, 2), (2, 2), (1, 3), (3, 4), (3, 1), (4, 3), (5, 5)\}$. Then check whether R is an equivalence relation.
- III) Raji wants to know the number of functions from A to B . How many number of functions are possible?

OR

Raji wants to know the number of relations possible from A to B . How many numbers of relations are possible?

9. Students of Grade 9, planned to plant saplings along straight lines, parallel to each other to one side of the playground ensuring that they had enough play area. Let us assume that they planted one of the rows of the saplings along the line $y = x - 4$. Let L be the set of all lines which are parallel on the ground and R be a relation on L .



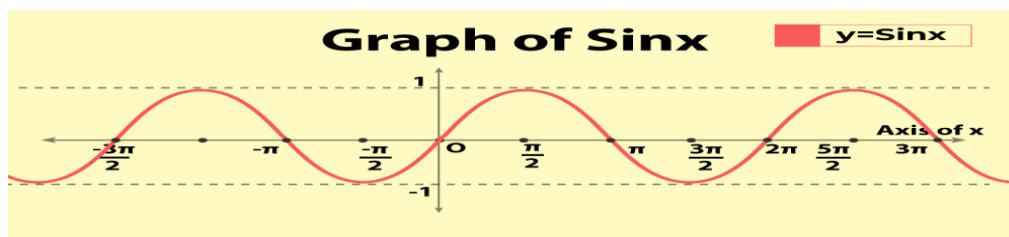
- I. Let relation R be defined by $R = \{(L_1, L_2) : L_1 \parallel L_2 \text{ where } L_1, L_2 \in L\}$. What is the type of relation R ?
- II. (a) Check whether the function $f : R \rightarrow R$ defined by $f(x) = x - 4$ is bijective or not.

OR

(b) Consider $f: R^+ \rightarrow [-5, \infty)$ given by $f(x) = 9x^2 + 6x - 5$. find range and show that f is invertible.

10. If a function $f : X \rightarrow Y$ defined as $f(x) = y$ is one-one and onto, then we can define a unique function $g : Y \rightarrow X$ such that $g(y) = x$, where $x \in X$ and $y = f(x)$, $y \in Y$. Function g is

called the inverse of f . The domain of sine function is \mathbb{R} and function $\sin: \mathbb{R} \rightarrow \mathbb{R}$ is neither one-one nor onto. The following graph shows the sine function.



Let sine function be defined from set A to $[-1, 1]$ such that inverse of sine function exists, i.e., $\sin^{-1} x$ is defined from $[-1, 1]$ to A .

On the basis of above information, answer the following questions.

- (i) If A is the interval other than principal value branch, give an example of one such interval.
- (ii) If $\sin^{-1} x$ is defined from $[-1, 1]$ to its principal value branch, find the value of $\sin^{-1}(-1/2) - \sin^{-1}(-1)$
- (iii) Draw the graph of $\cos^{-1} x$ from $[-1, 1]$ to its principal value branch $[0, \pi]$.
- (iv) Find the domain and range of
 - (a) $f(x) = 2\sin^{-1}(1-x)$
 - (b) $f(x) = \sin^{-1} x + \tan^{-1} x + \sec^{-1} x$

DOWNLOAD THE SQP & QP OF PREVIOUS YEAR 2026 OF YOUR REGION AND SOLVE THE QUESTIONS OF FOLLOWING TOPICS:

1. Continuity and Differentiability
2. Application on Derivatives
3. Sets, Relation and Function
4. Inverse Trigonometric Function
5. Matrix and Determinants

SECTION-B

Complete the following lab activities:

A₁: To verify the relation R in the set L of all lines in a plane, defined as $\{(l,m): l \perp m \text{ and } l, m \in L\}$ is symmetric but neither reflexive nor transitive.

A₂: To demonstrate a function which is not one-one but is onto?

A₃: To draw the graph of $\sin^{-1} x$, using the graph of $\sin x$ and demonstrate the concept of mirror reflection about $y=x$

A₄: To draw the graph of $\sec^{-1} x$, using the graph of $\sec x$ and demonstrate the concept of mirror reflection about $y=x$

A4: To find analytically the limit of a function at $x = 5$, $f(x) = \frac{x^2-25}{x-5}$ when $x \neq 5$ and $f(x) = 10$ when $x = 5$ and also to check the continuity of the function at that point.

A5: To sketch the graphs of 2^x and $\log_2 x$ and to examine that they are mirror images of each other.

A6: To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares pieces squares pieces from each corner.

विषय – संस्कृत

1. सामूहिकं यज्ञं कृत्वा सामूहिकं योगप्रशिक्षणं च दत्त्वा तस्य सामूहिकछायाचित्रम् एकस्मिन् A4 sheet कर्गदि संश्लेश्य तस्य विवरणं संस्कृतेन लिखत।
2. स्व-पाकशालायाम् उपलब्ध-खाद्य-वस्तूनां नामानि तेषां पात्रेषु संस्कृते विलिख्य छायाचित्राणि A4 sheet कर्गदि संश्लेश्य आनयन्तु।
3. ‘अनुशासनम्’ इति पाठं स्मृत्वा तद्विषयाधारितं सार्द्धं द्विपृष्ठात्मकं निबन्धं एकस्यां संचिकायां (FILE) संस्कृतेन लिखत।
4. प्रथम, द्वितीय एवं तृतीय पाठेषु आगतानां समस्त सन्धि-समास-प्रत्यय-शब्दानां चयनं कृत्वा एकस्यां लघु-टिप्पणीपुस्तिकायां विलिख्य आनयन्तु।
5. क्रियाकलाप -

क्रम.सं.	दिनाङ्कः	अभिवादनम्	योगः	यज्ञः	भोजनमन्तः	संस्कृतवाक्यम्	शयनमन्तः	अभिभावक-हस्ताक्षरम्
1.	27.05.26							
2.	28.05.26							
3.	29.05.26							
4.	30.05.26							
5.	31.05.26							
6.	1.06.26							
7.	2.06.26							
8.	3.06.26							
9.	4.06.26							
10.	5.06.26							
11.	6.06.26							

12.	7.06.26							
13.	8.06.26							
14.	9.06.26							
15.	10.06.26							
16.	11.06.26							
17.	12.06.26							
18.	13.06.26							
19.	14.06.26							
20.	15.06.26							
21.	16.06.26							
22.	17.06.26							
23.	18.06.26							
24.	19.06.26							
25.	20.06.26							
26.	21.06.26							
27.	22.06.26							
28.	23.06.26							
29.	24.06.26							
30.	25.06.26							

धातव्य-

1. भो छात्र ! प्रतिदिन आपको उपरोक्त क्रिया कलाप अवश्य करने हैं और प्रतिनित्य अपने अभिभावकों के हस्ताक्षर इस आशय से कराने हैं कि आपने उनके समक्ष किया है।

2. प्रतिदिन किये गये क्रिया कलाप को चित्र के माध्यम से प्रमाण सहित उपस्थित करना अनिवार्य है।
3. **संस्कृत वाक्य** में प्रतिदिन अपने अभिभावकों को एक-एक संस्कृत का वाक्य सिखाना है।
4. इस गृहकार्य के अंक आपके आंतरिक मूल्यांकन (Internal Assessment) के क्रियाकलाप (Activity) में जोड़े जायेंगे।

SUBJECT: ARTIFICIAL INTELLIGENCE

1. Prepare a **Capstone Project**, identifying a real-world problem, using the Design Thinking (DT) framework to solve it, and documenting the AI Project Cycle.
2. Prepare a Practical File (hard bound practical book) - Python & Data Handling
 - This requires you to document core Python and data manipulation programs.
 - You should write the Question, Code, and Output on A4 sheets (or prepare a digital document):
 - **Basic Data Frames:** Write a program to create a Pandas Data Frame using a sequence (dictionary) and display the first 5 records.
 - **CSV Operations:** Write a script to read data from a .csv file, convert it into a Pandas Data Frame, and perform operations on it.