



مدارس دارة السلام العالمية- الرياض

Daratassalam International

Delhi Public School – Riyadh

Summer Holiday Homework

Academic Session (2022—23)



ENGLISH (XII)

S. No.	Subjects	Assignments
1	Creativity	Compose a poem in your own words.
2	Literature	Research on Alphonse Daudet's life and his work
3	Literature	An Elementary School Classroom In A Slum
4	Advanced Writing Skills	Write article on any one of the mentioned topics.
5	Advanced Communication Skills	Prepare debate on any one of the following topics.

GENERAL INSTRUCTIONS

1. Compose a poem. It must consist of minimum three to four stanzas.
Describe all the poetic devices used in it. {Word Limit 50—100}
2. Research thoroughly on the life and works of **Alphonse Daudet**, a French Novelist.
{Word Limit 200—250}
3. Read the poem, “**An Elementary School Classroom in a Slum**” {Flamingo} & make notes on it.
{Word Limit 200—250}
4. Write an article on any **ONE** of the following topics. {Word Limit 200—250}

1	Importance of Effective Communication Skills
2	Importance of Personality Development of a student
3	Importance of National Scholarships for Students
4	Contribution of Technology in Modern Education
5	The Causes Of The Stress On The Modern Generation & Suggest Suitable Solutions

5. Advanced Communication Skills. Prepare Debate on any one of the following topics.
{Word Limit 200—250}

1	Is Democracy the best form of government?
2	Has Social Media improved human communication?
3	Is leisure time essential for workplace effectiveness?
4	Is summer vacation better than that of winter vacation?
5	Should students use smart phones without parental supervision?

NOTE: All the assignments must be handwritten in neat and intelligible way in the English Note Book.

Mathematics

1. Prove that the function $f: R \rightarrow R$ defined by $f(x) = 1 + x^2$ is neither one - one nor onto.
2. Check whether the relation R defined in the set $\{1, 2, 3, 4, 5, 6\}$ as $R = \{(a, b): b = a + 1\}$ is reflexive, symmetric and transitive.
3. Check the injectivity and surjectivity of the following function
 $f: N \rightarrow N$ is given by $f(x) = x^2$
4. Let L be the set of all lines in a plane and R be the relation in L defined as $R = \{(L_1, L_2): L_1 \text{ is perpendicular to } L_2\}$. Show that R is symmetric but neither reflexive nor transitive.
5. Show that each of the relation R in the set $A = \{x \in \mathbf{Z}: 0 \leq x \leq 12\}$, given by
(i) $R = \{(a, b): |a - b| \text{ is multiple of } 4\}$ (ii) $R = \{(a, b): a = b\}$ is an equivalence relation.

6. Write the following function in simplest form.

$$\tan^{-1} \left(\frac{\cos x - \sin x}{\cos x + \sin x} \right), x < \pi$$

7. If $\tan^{-1} \frac{x-1}{x-2} + \tan^{-1} \frac{x+1}{x+2} = \frac{\pi}{4}$ then find the value of x.

8. Prove that $2 \tan^{-1} \frac{1}{2} + \tan^{-1} \frac{1}{7} = \tan^{-1} \frac{31}{17}$.

9. Find the real solution of the equation $\tan^{-1} \left(\frac{1-x}{1+x} \right) = \frac{1}{2} \tan^{-1} x$

10. Prove that $\sin^{-1} \left(\frac{12}{13} \right) + \cos^{-1} \left(\frac{4}{5} \right) + \tan^{-1} \left(\frac{63}{16} \right) = \pi$

11. Prove that $\tan^{-1} \left(\frac{1}{5} \right) + \tan^{-1} \left(\frac{1}{7} \right) + \tan^{-1} \left(\frac{1}{3} \right) + \tan^{-1} \left(\frac{1}{8} \right) = \frac{\pi}{4}$

12. Find x, if $[x \quad -5 \quad -1] \begin{bmatrix} 1 & 0 & 2 \\ 0 & 2 & 1 \\ 2 & 0 & 3 \end{bmatrix} \begin{bmatrix} x \\ 4 \\ 1 \end{bmatrix} = 0$

13. Find the values of a and b if $\begin{bmatrix} a+10 & b^2+2b \\ 0 & -4 \end{bmatrix} = \begin{bmatrix} 3a & 3 \\ 0 & b^2-5b \end{bmatrix}$

14. If $A = \begin{bmatrix} -2 \\ 4 \\ 5 \end{bmatrix}$, $B = [1 \quad 3 \quad -6]$, verify that $(AB)' = B'A'$

15. Find the integral value of x, if $\begin{vmatrix} x^2 & x & 1 \\ 0 & 2 & 1 \\ 3 & 1 & 4 \end{vmatrix} = 4$

16. Find the inverse of $\begin{bmatrix} 2 & 4 & -7 \\ 1 & -1 & 2 \\ 3 & 0 & 1 \end{bmatrix}$.

17. Find the area of the triangle with vertices A(5, 4), B(-2, 4) and C(2, -6) by using determinant.

18. Find matrix A such that $\begin{bmatrix} 2 & -1 \\ 1 & 0 \\ -3 & 4 \end{bmatrix} A = \begin{bmatrix} -1 & -8 \\ 1 & -2 \\ 9 & 22 \end{bmatrix}$

19. Express the following matrix as the sum of a symmetric and a skew symmetric matrix.

$$A = \begin{bmatrix} 3 & 3 & 1 \\ -2 & -2 & 1 \\ -4 & -5 & 2 \end{bmatrix}$$

20. Using matrixes solve the system of equations

$$x + 2y - 3z = -4$$

$$2x + 3y + 2z = 2$$

$$3x - 3y - 4z = 11$$

Physics

1. Do all the solved examples of text book chapters 1-4.
2. Make a project on any topic of Physics for the board exams

Chemistry

1. Complete the exercise (numerical questions) in the completed chapters.
2. Prepare your record (Journal) book for submission for TERM-01 experiments.
3. Project work of Chemistry should be completed and must be submitted on reopening day. Here are some suggested projects links:

A] <https://www.scribd.com/doc/31194873/Investigatory-Project-Chemistry-Class-XII>,

B] <https://www.topicsforseminar.com/p/chemistry-investigatory-project.html?m=1>

C] [Investigatory-Projects-Experiments-Class-12-CBSE.php](#)

D] <https://leverageedu.com/blog/chemistry-project-for-class-12/>

Biology

1. To make an investigatory project on given topic.

Physical Education.

“Make a project on game which you have opted”.

Computer Science

- Revise the Chapters done till now.
- Complete the Question & Answers for Chapter 3 in your Class note book.
- Complete Lab Manual for the First 3 Chapters.

Economics

MACROECONOMICS

- Q1. What is final and intermediate goods with examples?
- Q2. Define producer and capital goods.
- Q3. State the significance of circular flow model with diagram.
- Q4. Define gross domestic product at market price.
- Q5. What is meant by real and nominal GDP?
- Q6. Define factor income and transfer income.
- Q7. Attempt all National income numerical.

	CALCULATE NET VALUE ADDED AT FACTOR COST	
1	Purchase of machinery to be used in the production unit	100
2	Sales	200
3	Intermediate costs	90
4	Indirect tax	12
5	Change in stock	10
6	Excise duty	6
7	Stock of raw material	5

	CALCULATE NATIONAL INCOME AT MP	
1	RENT	
2	NET CURRENT TRANSFERS TO REST OF THE WORLD	
3	SOCIAL SECURITY CONTRIBUTION BY EMPLOYERS	
4	MIXED INCOME	
5	GROSS DOMESTIC CAPITAL FORMATION	
6	ROYALTY	
7	INTEREST	
8	COMPENSATION OF EMPLOYEES	
9	NET DOMESTIC CAPITAL FORMATION	
10	NET FACTOR INCOME FROM ABROAD	
11	NET INDIRECT TAX	
12	PROFIT	

1	CALCULATE NATIONAL INCOME AT MP	
	ITEMS	IN CRORE
1		80
2	PRIVATE FINAL CONSUMPTION EXPENDITURE	600
3	UNDISTRIBUTED PROFIT	30
	FACTOR INCOME FROM ABROAD	20
5	GOVERNMENT FINAL CONSUMPTION EXPENDITUE	100
6	CORPORATE TAX	50
7	NET DOMESTIC FIXED CAPTIAL FORMATION	70
8	NET INDIRECT TAX	60
9	DEPRECIATION	14
10	CHANGE IN STOCK	-10
11	NET IMPORTS	20
12	FACTOR INCOME TO ABROAD	10

Accountancy

1. The partnership deed is silent on payment of salary to partners. Anita, a partner, claimed that, since she managed the business, she should get a monthly salary of Rs. 10,000. Is she entitled for the salary? Give reason.
2. State the provisions of Indian Partnership Act, 1932 regarding the payment of remuneration to a partner for the services rendered.
3. What share of profit would a 'sleeping partner', who has contributed 75% of the total capital, get in the absence of a deed?
4. Is a sleeping partner liable for the acts of other partners?
5. What is meant by a partnership deed?
6. Why should a firm have a partnership deed?
7. What is meant by 'unlimited liability of a partner'?
8. State the provisions of Indian Partnership Act, 1932 regarding interest on partners' capital and interest on partners' loan when there is no partnership deed
9. Can a partner be exempted from sharing the losses in a firm? If yes, under what circumstances?
10. Suresh and Ramesh are partners in a firm with capitals of t 3,00,000 and ? 4,00,000 respectively. They do not have a partnership deed. Ramesh wants to share the profits in the ratio of capitals. State with reason whether the claim is valid.

11. How does the factor 'quality of product' affect the goodwill of a firm?
12. How does the factor 'efficiency of management' affect the goodwill of a firm
13. Define goodwill?
14. Explain any Three methods for valuation of goodwill.
15. What is meant by sacrificing ratio?
16. List any two items that need adjustments in the books of accounts of a firm at the time of admission of a partner
17. X and Y are partners. Y wants to admit his son K into business. Can K become the partner of the firm?
18. State any one purpose for admitting a new partner in a firm
19. A and B are partners sharing profits in the ratio of 5 : 4. They admit C for $\frac{1}{9}$ th share, which he acquires from A. Find the new profit sharing ratio.
20. A, B and C were partners in a firm sharing profits in the ratio of 8 : 4 : 3. B retires and his share is taken up equally by A and C. Find the new profit sharing ratio.
21. Define gaining ratio.
22. A, B and C are partners sharing profits in the ratio of 3 : 2 : 1. B retires and new profit sharing ratio between A and C is 3 : 1. State the gaining ratio.
23. A, B and C were partners in a firm sharing profits in the ratio of 6 : 5 : 4. C retires and his share is taken up equally by A and B. Find the new profit sharing ratio.
24. Distinguish between 'dissolution of partnership' and 'dissolution of partnership firm' on the basis of closure of books.
25. Identify a situation, under which court may order for dissolution of a partnership firm.
26. When an asset is taken over by a partner, why is his capital account debited?
27. When a liability is to be discharged by a partner, why is his capital account credited?
28. In case of dissolution of a firm, which liabilities are to be paid first?
29. A business earned average profits of Rs. 1,00,000 during the last few years. The normal rate of return in similar type of business is 10%. The assets of the business were Rs. 10,00,000 and external liabilities were Rs. 1,80,000. Calculate the value of goodwill of the firm by super profit method, if the goodwill is valued at 2. $\frac{1}{2}$ years' purchase of super profits.
30. A and B entered into partnership on 1st April, 2009 without any partnership deed. They introduced

capital of Rs. 5,00,000 and Rs. 3,00,000 respectively. On 31st October, 2009, A advanced Rs. 2,00,000 by way of loan to the firm without any agreement as to interest.

The profit and loss accounts for the year ended 31st March, 2010 showed a profit of Rs. 4,30,000, but the partners could not agree upon the amount of interest on loan to be charged and the basis of division of profits.

Pass a journal entry for the distribution of the profit between the partners and prepare the capital accounts of both the partners and loan account of 'A'.

31. Following is the balance sheet of A & B who had been sharing profit and losses in the ratio of 3/4 and 1/4 as of 31st March 2021. (8 marks)

Liabilities	Amount	Assets	Amount
Creditors	37,500	Cash at Bank	22,500
General Reserve	6,000	Bill receivables	3,000
Capital accounts		Debtors	16,000
A 28,500		Stock	20,000
B 15,500	44,000	Furniture	1,000
		Land & Building	25,000
	87,500		87,500

They admit C into partnership on 01st April 2021 on the following terms.

1. C pays Rs. 14,000 as his capital for 1/5th share in future profits.
2. Goodwill is valued at Rs. 20,000. C is unable to bring cash for his share of goodwill.
3. Stock and furniture be reduced by 10% and 5%. Provisions for doubtful debts be created on debtors.
4. Land & Building be appreciated by 20%.
5. Capital accounts of the partners be re adjusted on the basis of their profit sharing arrangement and any access of deficiency to be transferred to their current accounts.

Prepare revaluation accounts, partners' capital account and the balance sheet of the new firm.

32. R, S and T were partners in a firm sharing profits in 2 : 2 : 1 ratio. On 1st April, 2004, their balance sheet was as follows

Balance Sheet
as at 1st April, 2004

Liabilities	Amt (₹)	Assets	Amt (₹)
Bank Loan	12,800	Cash	51,300
Sundry Creditors	25,000	Bills Receivable	10,800
Capital A/cs		Debtors	35,600
R 80,000		Stock	44,600
S 50,000		Furniture	7,000
T 40,000	1,70,000	Plant and Machinery	19,500
Profit and Loss A/c	9,000	Building	48,000
	2,16,800		2,16,800

S retired from the firm on 1st April, 2004 and his share was ascertained on the revaluation of assets as

follows; stock Rs. 40,000, furniture Rs. 6,000, plant and machinery Rs. 18,000, building Rs. 40,000; Rs. 1,700 were to be provided for doubtful debts. The goodwill of the firm was valued at Rs. 12,000. S was to be paid Rs. 18,080 in cash on retirement and the balance in three equal yearly instalments. Prepare revaluation account, partners' capital account, S's loan account and balance sheet on 1st April, 2004.

33. The balance sheet of Sadhna, Mohit and Rohit who were sharing profits in the ratio of 1:2:3 as on 31st March, 2012 was as follows

Balance Sheet
as at 31st March, 2012

Liabilities	Amt (₹)	Assets	Amt (₹)
General Reserve	60,000	Cash	36,000
Bills Payable	20,000	Stock	85,000
Loan	24,000	Investments	58,000
Capital A/cs		Land and Building	2,20,000
Sadhna	75,000	Rohit's Loan	30,000
Mohit	1,00,000		
Rohit	1,50,000		
	3,25,000		
	4,29,000		4,29,000

Rohit died on 1st September, 2012. The partnership deed provided for the following on the death of a partner

- (i) Goodwill of the firm to be valued at two years' purchase of average profits for the last three years.
- (ii) Rohit's share of profit or loss till the date of death was to be calculated on the basis of sales. Sales for the year ended 31st March, 2012 amounted to Rs. 6,00,000 and that from 1st April to 1st September, 2012 to Rs. 3,50,000. The profit for the year ended 31st March, 2012 was calculated as Rs. 1,50,000.
- (iii) Interest on capital was to be provided @ 8% per annum.
- (iv) The average profits of the last three years were Rs. 72,000.
- (v) According to Rohit's will, the executors should donate his share to 'Matri Chhaya an orphanage for girls'.

Prepare Rohit's capital account to be rendered to his executor. Also identify the value being highlighted in the question.

34. Verma and Sharma were partners sharing profits in the ratio of 3 : 1. On 31st March, 2011, their balance sheet was as follows:

Balance Sheet
as at 31st March, 2011

Liabilities		Amt (₹)	Assets		Amt (₹)
Capital A/cs			Land and Building		70,000
Verma	1,20,000		Machinery		60,000
Sharma	80,000	2,00,000	Debtors		80,000
Creditors		70,000	Bank		60,000
		2,70,000			2,70,000

The firm was dissolved on 1st April, 2011 and the assets and liabilities were settled as follows:

- (i) Creditors of Rs. 50,000 took over land and building in full settlement of their claim.
- (ii) Remaining creditors were paid in cash.
- (iii) Machinery was sold at a depreciation of 30%.
- (iv) Debtors were collected at a cost of Rs 500.
- (v) Expenses on realisation were Rs 1,700. Pass necessary journal entries for dissolution of the firm.

Business Studies

1. **Project work : Choose any product and prepare its Marketing strategy .**
2. **Do the 'Case Studies' of Chapter 1 to 6**