



LOYOLA CONVENT SCHOOL, RANCHI

Summer Holiday Homework (2025-26)

Class- XI

ENGLISH

1. Read any story book of famous writers like Ruskin Bond, Agatha Christie, Jane Austen, Chetan Bhagat etc and write a Book Review. Paste pictures also
 2. Write a poem or story on My Grandparents/Parents. Relate it to the story The Portrait of a lady. Paste pictures/graphic description/layout etc. Make it presentable.
 3. Write 5 new words everyday in your copies with the meanings and learn it also.
- NOTE: All the work in C.W copies only. Use your creative ideas and innovative methods.

FOR THE BOOK REVIEW USE THE FOLLOWING POINTS:

To write a compelling book review, you should first read the book, take notes, and then outline your main points. Next, provide a brief summary of the plot without spoilers, followed by your evaluation of the writing style, characters, and overall enjoyment. Finally, conclude by recommending the book to a specific audience and summarizing your main points.

PHYSICS

Prepare a Mathematical formula list based on Trigonometry, Mensuration, Limits, Derivatives and Integration

Prepare Formula list (serial number 1 to 56) of Physical quantities given in NCERT Appendix A-9

CHEMISTRY

1. Define the terms with examples -Elements, Compounds, Physical change, Chemical change
2. What is the International system of units (SI) ? Discuss
3. Define the following SI base units: (a) metre (b) kilogram (c) second (d) mole (f) kelvin.
4. Differentiate between mass and weight. Also explain the term volume.
5. State all four laws of chemical combination with examples.
6. Write down all the postulates of Dalton's atomic theory.
7. Define the terms with examples : isotopes, isobars and isotone.
8. Explain ' u ' .
9. Do NCERT book Ex.Q. - 1.4, 1.5, 1.6, 1.7, 1.10, 1.11, 1.12, 1.23, 1.24, 1.26.

MATHS

Basics: Make a formula sheet file A4. size write all basics concepts

- ☐ Number system
- ☐ Algebraic Identity
- ☐ Exponents
- ☐ Componendo and dividendo
- ☐ Limits
- ☐ Derivatives
- ☐ Trigonometric functions, formulae of related chapters on it.

Note: For future purpose keep more sheet papers and in regular basis write all essential formulas and concepts.

Chapter 1: sets :

Ex.1.1 ,1.2, 1.3, 1.4 miscellaneous (ncert)including multiple choice questions.

Chapter 6: Linear inequation6.1, 6.2 miscellaneous

BIOLOGY

Answer the following

1. What are the advantages of giving scientific names to organisms?
2. Why are living organisms classified?
3. What is the basis of modern taxonomic studies?
4. Write the rules of binomial nomenclature
5. Define taxon
6. What do you understand by 'phycobiont' and 'mycobiont'?
7. Define the following
 - A.Virus
 - B.viroids
 - C. Vision
 - D. Prion
 - E. Lichen
 - F. Heterocyst
 - G. Mycorrhiza
8. Differentiate eubacteria and archae bacteria on the basis of cell wall.

ECONOMICS

1. Write and learn all the formulae of Mean, Median, Mode, Correlation and Index Numbers mentioned in your Statistics book in the appendix.

ACCOUNTS

Question 1

Write Short notes on the following:

- a) Dual Aspect Concept
- b) Accrual Concept
- c) Going Concern Concept
- d) Cost Concept
- e) Accounting Period Concept
- f) Assets
- g) Liability

Question 2

On 31st March, 2011 the total assets and external liabilities were Rs 6,00,000 and Rs 18,000 respectively. During the year, the proprietor had introduced capital of Rs 60,000 and withdrawn Rs 36,000 for personal use. He made a profit of Rs 60,000 during the year. Calculate the capital as on 1st April, 2010.

Question 3

Mr. Sunrise started a business for buying and selling of stationery with ` 5,00,000 as an initial investment. Of which he paid `1,00,000 for furniture, ` 2,00,000 for buying stationery items. He employed a sales person and clerk. At the end of the month, he paid ` 5,000 as their salaries. Out of the stationery bought he sold some stationery for `1,50,000 for cash and some other stationery for `1,00,000 on credit basis to

Mr. Ravi. Subsequently, he bought stationery items of ₹1,50,000 from Mr. Peace. In the first week of next month there was a fire accident and he lost ₹30,000 worth of stationery. A part of the machinery, which cost ₹40,000, was sold for ₹45,000.

From the above, answer the following:

1. What is the amount of capital with which Mr. Sunrise started business.
2. What are the fixed assets he bought?
3. What is the value of the goods purchased?
4. Who is the creditor and state the amount payable to him?
5. What are the expenses?
6. What is the gain he earned?
7. What is the loss he incurred?
8. Who is the debtor? What is the amount receivable from him?
9. What is the total amount of expenses and losses incurred?
10. Determine if the following are assets, liabilities, revenues, expenses or none of these:
sales, debtors, creditors, salary to manager, discount to debtors, drawings by the owner.

Question 4

What do you mean by an asset and what are different types of assets?

Question 5

Ruchica's father is the sole proprietor of 'Friends Gifts', a firm engaged in the sale of gift items. In the process of preparing financial statements, the accountant of the firm Mr. Goyal fell ill and had to proceed on leave. Ruchica's father was urgently in need of the statements as these had to be submitted to the bank, in pursuance of a loan of ₹5 lakh applied for the expansion of the business of the firm. Ruchica who is studying Accounting in her school, volunteered to complete the work. On scrutinising the accounts, the banker found that the value of building bought a few years back for ₹7 lakh has been shown in the books at ₹20 lakh, which is its present market value. Similarly, as compared to the last year, the method of valuation of stock was changed, resulting in value of goods to be about 15 per cent higher. Also, the whole amount of ₹70,000 spent on purchase of personal computer (expected life 5 years) during the year had been charged to the profits of the current year. The banker did not rely on the financial data provided by Ruchica. Advise

Ruchica for the mistakes committed by her in the preparation of financial statements in the context of basic concepts in accounting.

Question 6

Discuss the concept-based on the premise 'do not anticipate profits but provide for all losses'.

Question 7

Why is it important to adopt a consistent basis for the preparation of financial statements? Explain.

Question 8

Prove that accounting equation is satisfied in all the following transactions of Swati Goyal:

1. Started business with cash Rs 3,00,000.
2. Paid rent in advance Rs 9,000.
3. Purchased goods for cash Rs 1,50,000 and credit 1,60,000.
4. Sold goods for cash Rs 2,40,000 costing Rs 1,20,000.
5. Paid salary in cash Rs 13,500 and salary outstanding Rs 3,000.
6. Bought motor cycle for personal use Rs 90,000.

Question 9

Prepare Accounting Equation from the following and also prepare a Balance Sheet:

1. Raghav started business with Cash ₹ 1,50,000.
2. Bought goods for cash ₹ 80,000 and on credit for ₹ 40,000.
3. Goods costing ₹ 75,000 sold at a profit of 33 1/3 %. Half the payment received in cash.
4. Goods costing ₹ 10,000 sold for ₹ 12,000 on credit.
5. Paid for Rent ₹ 2,000 and for salaries ₹ 4,000.
6. Goods costing ₹ 20,000 sold for ₹ 18,500 for Cash.

Question 10

Show an Accounting Equation for the following transactions:

- (i) D. Mahapatra commenced business with cash ₹ 50,000 and ₹ 1,00,000 by cheque; goods ₹ 60,000; machinery ₹ 1,00,000 and furniture ₹ 50,000.
- (ii) 1/3rd of the above goods sold at a profit of 10% on cost and half of the payment is received in cash.
- (iii) Depreciation on machinery provided @ 10%.
- (iv) Cash withdrawn for personal use ₹ 10,000.
- (v) Interest on drawings charged @ 5%.
- (vi) Goods sold to Gupta for ₹ 10,000 and received a Bill Receivable for the same amount for 3 months.
- (vii) Received ₹ 10,000 from Gupta against the Bills Receivable on its maturity.

BUSINESS STUDIES

1. Business idea with the list of 10 business ideas, with brief description of each idea with any limited amount, say 10000, 100000, 500000 etc.
2. Financial literacy and safety in online shopping
3. Women empowerment, diff. Steps by state/central government giving more opportunities to women in different fields
4. Karta, is the most active member in HUF. He is too powerful to ruin the business. Comment.
5. List and explain the forms of business organisation found in India with various real examples.

HISTORY

Prepare a Project on any one of the following topics

1. Mesopotamian Civilization
2. Roman Empire
3. Nomadic Empire (Genghis Khan's Empire)
4. The Three Orders

GEOGRAPHY

- (1) Explain how geography is an interdisciplinary subject.
- (2) Explain India's strategic central location at the head of Indian Ocean.
- (3) On the outline map of India label major National parks and wildlife sanctuaries.
- (4) Explain different types of forest found in India and explain them with relevant pictures.

POL SCIENCE

Prepare project on following topic (ANY ONE)

Subtopics:

1. Making of the Constitution
2. Elections in India
3. Working of the Indian Judiciary System.
4. Social Justice: Are ethics followed in Indian Politics
5. Human Rights Act and its gratification in India.

PHE

Lab manual

Prac. 1: Wearables and technology advancement in sports with diagrams.

Prac. 2: Any 5 asana with Procedure, Benefits, Contradiction.

Prac. 3: Court diagram, rules and techniques for any 1 IOA recognised game

HINDI

1. परियोजना कार्य

विषय: विविध माध्यमों के लिए लेखन

- | | | |
|-------------------------|----------------------------------|-----------------------|
| - प्रमुख जनसंचार माध्यम | - प्रिंट माध्यम तुलनात्मक प्रभाव | - भाषा शैली विशेषताएँ |
| - रेडियो | - टेलीविजन | - इंटरनेट |
| - योगदान | - आपका सुझाव | |

परियोजना कार्य आधार बिंदु

- | | | |
|--------------------|---------------|------------------|
| - विषय | - आभार ज्ञापन | - विषय सूची |
| - उद्देश्य | - विषय विवरण | - साक्ष्य संग्रह |
| - अध्ययन का परिणाम | - स्रोत | - प्रमाण पत्र |
| - अध्यापक टिप्पणी | | |

COMPUTER SCIENCE

1. Write a Python program that takes an integer input n from the user and prints the sum of all even numbers from 1 to n (inclusive).
2. Write a Python program that takes a year as input and checks whether it is a leap year or not.
3. Write a Python program that asks the user to enter a number and then prints the multiplication table of that number from 1 to 10.
4. Write a Python program that takes an integer as input and determines whether the number is positive, negative, or zero.
5. Write a Python program to calculate the factorial of a given number using a while loop.