



Sanskriti KMV SCHOOL

Session 2026-27

Summer Break Assignments

Grade-XI Commerce

"Summertime offers the perfect pause to rejuvenate the body, mind, and spirit."

Dear Parents,

The summer vacation is a cherished opportunity to pause, reconnect with loved ones, and invest time in meaningful and enjoyable pursuits. To make this interval both enriching and engaging, we have curated a collection of experiential learning tasks aimed at promoting creativity, responsibility, and joyful exploration.

As the students unwind and recharge, we request your support in ensuring that this break is spent in a productive and wholesome manner. A few essential guidelines are as follows:

- All assignments must be completed with sincerity and submitted promptly after the vacation. Kindly ensure the work is neatly arranged in a well-labelled folder with the student's name, father's name, class, and section.
- Promote daily physical activity by encouraging your child to follow a simple fitness routine and adopt healthy eating habits.
- Engage your child in basic household tasks to instil a sense of cooperation and independence.
- Limit screen time and create opportunities for heartfelt conversations and bonding, especially with grandparents.
- Maintain a creative journal capturing memorable outings, celebrations, or simple joyful moments, accompanied by photographs.
- Let us work together to make this summer a season of discovery, joy, and meaningful learning.

"Wishing you a refreshing, safe, and sunshine-filled holiday season!"

HAPPY HOLIDAYS



ENGLISH

1. POSTER MAKING

- Design any one creative poster on the following topics related to Punjab and Odisha (Orissa):
- Festivals of Punjab and Odisha
- Traditional Dress of Punjab and Odisha
- Famous Food of Punjab and Odisha
- Tourism in Punjab and Odisha
- Dance Forms of Punjab and Odisha
- Use catchy slogans and creative illustrations.

2. ADVERTISEMENT WRITING

Design attractive and well-formatted classified advertisements for the following situations:

(a) **Situation Vacant**

You are the Principal of a reputed senior secondary school in Jalandhar. Draft a classified advertisement for a leading newspaper announcing the requirement of a qualified and experienced English Teacher. Mention the required qualifications, communication skills, experience, salary benefits, and contact details.

(b) **For Sale**

You wish to sell your fully furnished house located in a prime residential area. Draft a classified advertisement mentioning the location, number of rooms, modern facilities, nearby amenities, expected price, and contact details.

3. BOOK READING AND REVIEW

Read any one novel/book of your choice and prepare a detailed review including the following points:

- Title and Author
- Theme and Plot Summary
- Favourite Character
- Important Message/Learning
- Your Personal Opinion
- Favourite Quote from the Book

4. CREATIVE & INNOVATIVE TASK

'Digital Detox Challenge'

Spend one hour daily away from gadgets for at least 10 days. Record your experience in a journal under the title:

- ❖ 'Life Beyond Screens'
- ❖ Mention:

- Activities performed
- Feelings and observations
- Positive changes experienced

5. PROJECT FILE

❖ Guidelines

- It is compulsory for all students to prepare the Project File for Internal Assessment.
- The assessment will include:
 - ✓ Project File – 5 Marks
 - ✓ Viva – 5 Marks
 - ✓ The project should be handwritten in about 800–1000 words.
 - ✓ Use A4 size white sheets and get the file spiral bound.
 - ✓ Cover Page, Acknowledgement and Certificate may be printed, but the remaining work should be handwritten neatly.
 - ✓ Paste pictures, charts and graphs on the left side and write the content on the right side.
 - ✓ Students should collect information through surveys, interviews, questionnaires, articles and case studies.
 - ✓ At least 10 people should be interviewed and a questionnaire of 15 questions should be prepared.
 - ✓ Attach photographs, questionnaire and other evidences at the end of the file.

Suggested Topics for Grade XI

- Importance of Time Management in Student Life
- Linguistic Chauvinism and Importance of Mother Tongue
- Fear, Phobias and Ways to Overcome Them
- Stress, Anxiety and Mental Health among Students
- Environmental Degradation and Conservation
- Meditation and Importance of Self-Introspection
- Importance of Parents and Care for Elders
- Condition of Old Age Homes in India
- Freedom Movements of India and Contributions of Freedom Fighters
- Importance of Nature and Mental Peace
- Disability and Inclusion in Society
- Society's Attitude Towards Disabled People
- Life in Slums and Child Labour
- Education for Underprivileged Children
- Role of Youth in Upliftment of Society
- War, Peace and Their Impact on Society

- Crime and Criminal Behaviour in Society
- Condition of Farmers in India
- Or Any Contemporary Topic

Project File Layout

- Cover Page
- Objective / Purpose
- Certificate
- Action Plan
- Introduction
- Main Content (Survey, Interview, Questionnaire, Case Study, Articles, Graphs, Pictures)
- Handwritten Report / Essay (800–1000 words)
- Student Reflection (100–150 words)
- Photographs / Evidence
- Bibliography / Resources

Parameters of Assessment

- Quality of Content
- Accuracy of Information
- Creativity and Presentation
- Grammar and Spellings
- Clarity of Ideas
- Timely Submission
- Participation and Effort
- Knowledge and Understanding
-

ECONOMICS

HOLIDAY ASSIGNMENT

Answer the following questions:

Note : Write answers on ruled sheets. This assignment will be assessed for Term 1 practical.

1. Define the following terms
 - a. Consumption
 - b. Economics
 - c. Economic activity
2. Differentiate between Macro and Micro economics.
3. Explain any four characteristics of statistics.
4. State the various statistical tools used for different stages of statistical study.

5. A store sells five different products. The profit per unit of each of the product is given below. Find out average profit by step deviation method.

Product 1	Product 2	Product 3	Product 4	Product 5
Rs. 20	Rs. 90	Rs.60	Rs.90	Rs.40

6. Calculate mean of the following frequency distribution by direct method :

Size	2	3	4	5	6	7	8	9	10
Frequency	14	15	11	13	2	5	8	7	5

7. Compute mean of the following data:

Wages	No. of Workers
Above 80	180
Above 90	171
Above 100	154
Above 110	124
Above 120	80
Above 130	49
Above 140	30
Above 150	0

8. There are 50 workers in a factory. Their mean average was calculated at Rs. 12,000. Later on it was discovered that the wages of two workers were misread as 15,000 and 20,000 in place of 14000 and 12000. Find corrected mean.
9. Find out the missing value, given that the mean of series is 20 marks.

Marks	No. of students
10	5
12	10
20	8
?	6
40	11

10. "During Covid 19 pandemic there was a nationwide lockdown which led to migration of labours across states. State government should have taken necessary steps to reduce migration of people."

The above statement is a positive or normative give reason to support you answer.

11. **Make Power Point presentation of 10 slides on "Impact of Artificial Intelligence (AI)" on the topic assigned for the final term.(Submit print out of PPT along with above assignment)**

PROJECT WORK CLASS XI ECONOMICS

(FOR FINAL TERM)

Dear Student

Make Economic Project file as per the assigned topic and following instructions given.

Steps towards making project:

- Cover page
- Acknowledgement
- Certificate
- Index
- Introduction
- Objective
- Identify cause, consequences and remedies
- Impact on Indian Economy
- Factors effecting
- Analysis
- Conclusion
- Bibliography

Guidelines:

1. Coloured thick A4 sheets to be used.
2. Minimum pages 25 (From Introduction to conclusion)
3. Spiral binding
4. Use Blue pen
5. Must include latest data, pictures or graphs
6. Project file content should be written in your own handwriting
7. File should be Neat and presentable

- **Last date of submission is 1st November 2026**

MARKETING

Q1. Prepare a practical file by collecting print advertisements and analyzing the message conveyed in marketing of goods, services, people, ideas, experience, events, places, properties, organizations and information. Suggest an alternative mode of communication to the firm and create an advertisement for the same.

OR

Q2. Prepare a project report on Micro environmental scanning of a firm and industry of your choice.

Q.3. Create a product:

- Name your product
- Logo of your product
- Describe components
- Features of the product
- Cost and market price of the product
- Develop marketing strategy of your product

Q4. Students should revise Unit 1 of main book thoroughly.

ACCOUNTANCY

A)PROJECT WORK

1) Imagine of opening a Sole- proprietary business of your choice. select its name, prepare sample vouchers, debit note, credit note, cash-memo, invoice and paste in your notes register. Frame the transactions you enter into in the first year of its formation (minimum 30), right from introducing capital. Later prepare the journal for recording the transactions.

Note: Use loose A4 size sheets.

2) The Rise of FinTech & "Buy Now, Pay Later" (BNPL): Research the modern financial trend of BNPL apps (like Lazypay, Simpl, or Flipkart Pay Later). Write a 1-page analytical report explaining:

- a) How does BNPL differ from a traditional Credit Card?
- b) From an accounting perspective, when a customer uses BNPL to buy a pair of shoes, is it a cash transaction or a credit transaction for the seller?
- c) What are the potential financial risks for young consumers using these platforms?

3) The Forensic Case Study: Corporate Scams: Research one famous financial fraud or corporate accounting scam (such as the Satyam Computers Scam in India or the Enron Scandal globally). Write a 2-page investigative report addressing:

- a) What did the company do wrong with their accounts? (e.g., hiding window dressing, creating fake bills).
- b) How did the truth eventually come out?
- c) What lesson did the accounting world learn from this incident?

Tip: Use news articles, diagrams, or flowcharts to make your case study look like a professional financial report

B) Solve the following questions

1. Journalise the following transactions in the books of Himanshu 2015

- a) Dec.01 Business started with cash 75,000
- b) Dec.07 Purchased goods for cash 10000.
- c) Dec.09 Sold goods to Swati 5,000
- d) Dec.12 Purchased furniture 3,000
- e) Dec.18 Cash received from Swati in full settlement 4,000
- f) Dec.25 Paid rent 1,000
- g) Dec.30 Paid salary 1,500

2. Enter the following Transactions in the Journal of Mudit:

- a) Jan.01 Commenced business with cash 1,75,000, Building 1,00,000
- b) Jan.02 Goods purchased for cash 75,000
- c) Jan.03 Sold goods to Ramesh 30,000
- d) Jan.04 Paid wages 500
- e) Jan.06 Sold goods for cash 10,000
- f) Jan.10 Paid for trade expenses 700
- g) Jan.12 Cash received from Ramesh 29,500 Discount allowed 500
- h) Jan.14 Goods purchased for Sudhir 27,000
- i) Jan.18 Cartage paid 1,000
- j) Jan.20 Drew cash for personal use 5,000
- k) Jan.22 Goods use for household 2,000

3. Journalise the following transactions: 2025

- a) Dec. 01 Hema started business with cash 1,00,000
- b) Dec. 02 Open a bank account with SBI 30,000
- c) Dec. 04 Purchased goods from Ashu 20,000
- d) Dec.06 Sold goods to Rahul for cash 15,000
- e) Dec.10 Bought goods from Tara for cash 40,000
- f) Dec.16 Received cheque from Suman 19,500 Discount allowed 500
- g) Dec.20 Cheque given to Ashu on account 10,000
- h) Dec.22 Rent paid by cheque 2,000
- i) Dec.23 Deposited into bank 16,000
- j) Dec.25 Machine purchased from Parigya 10,000
- k) Dec.26 Trade expenses 2,000
- l) Dec.28 Cheque issued to Parigya 10,000
- m) Dec.29 Paid telephone expenses by cheque 1,200

4. Prepare Journal from the transactions given below:
 - a) Cash paid for installation of machine ` 500
 - b) Goods given as charity ` 2,000
 - c) Interest charge on capital @7% p.a. when total capital were ` 70,000
 - d) Received `1,200 of a bad debt written-off last year.
 - e) Goods destroyed by fire ` 2,000 F. Rent outstanding ` 1,000
 - f) Interest on drawings ` 900
 - g) Sudhir Kumar who owed me ` 3,000 has failed to pay the amount. He pays me a compensation of 45 paise in a rupee.
5. Journalize the above transactions. Soraj Mart furnishes the following information:

Transactions during the month of April 2015 are as under:

 - a) 1.4.2015 Goods purchased form Manisha ` 36,000.
 - b) 1.4.2015 Stationery purchased for cash ` 2,200.
 - c) 2.4.2015 Open a bank account with SBI for ` 35,000.
 - d) 2.4.2015 Goods sold to Priya for ` 16,000.
 - e) 3.4.2015 Received a cheque of ` 16,000 from Priya.
 - f) 5.4.2015 Sold goods to Nidhi ` 14,000.
 - g) 08.4.2015 Nidhi pays ` 14,000 cash.
 - h) 10.4.2015 Purchased goods for ` 20,000 on credit from Ritu.
 - i) 14.4.2015 Insurance paid by cheque ` 6,000.
 - j) 18.4.2015 Paid rent ` 2,000.
 - k) 24.4.2015 Purchased office furniture for ` 11,200.
 - l) 20.4.2015 Goods costing ` 1,500 given as charity.
 - m)29.4.2015 Cash withdrawn for household purposes ` 5000.
 - n) 30.4.2015 Interest received cash `1,200.
6. Journalise the following transactions of M/s Time Zone.
 - a) Business started with cash 1,20,000
 - b) Opened a bank account with ICICI 4,00,00
 - c) Goods purchased for cash 12,000
 - d) Paid cartage 500
 - e) Goods sold on credit to M/s Lara India 25,000
 - f) Cash received from M/s Lara India 10,000
 - g) Goods returned from Lara India 3,000
 - h) Paid trade expenses 700
 - i) Withdrew ₹1,000 for personal use.
 - j) Withdrew goods for personal use (cost ₹500, sale price ₹600).
7. Journalise the following transactions
 - a) Shyam commenced business with cash ₹35,00,000; Goods ₹80,000; Furniture ₹2,00,000.
 - b) Sold goods costing ₹24,000 for cash to Ramesh ₹26,500.
 - c) Commission received in advance ₹2,500.
 - d) Depreciation on furniture ₹4050.
 - e) Deposited in the bank ₹2,50,000.
 - f) Purchased household goods for ₹15,000 giving ₹5,000 in cash and balance through a loan.
 - g) Paid ₹7500 for loan and ₹250 as interest.

h) Accrued interest ₹250.

i) Goods destroyed by fire costing 10,000. Withdrew ₹550 for personal use.

8. Journalise the following transactions

a) Shri Ganesh commenced business with cash ₹35,000, goods ₹8,000 and furniture ₹7,000.

b) Bought furniture from M/s Mohan Furniture on credit for ₹3,000.

c) Purchased goods from Sohan for cash ₹35,000.

d) Sold goods to Shyam for cash ₹40,000 (costing ₹30,000).

e) Bought goods from Ramesh ₹30,000.

f) Sold goods to Shyam costing ₹30,000 for ₹50,000.

g) Received ₹49,500 from Shyam in full settlement.

h) Paid ₹29,700 to Ramesh in full settlement.

i) Paid half the amount owed to M/s Mohan.

j) Purchased household goods for ₹15,000 giving ₹5,000 in cash

k) Paid cash ₹500 for loan and ₹300 for interest.

l) Goods destroyed by fire (cost ₹500, sale price ₹600)

m) Paid salary ₹500 and salary outstanding ₹100.

n) Paid rent in advance ₹2,000.

o) Accrued interest ₹ 500.

p) Commission received in advance ₹ 1,000.

q) Charged depreciation of ₹ 400 on furniture.

9. Amit had the following transactions. Prepare Journal

a) Commenced business with Cash ₹12,50,000.

b) Purchased securities for ₹15,000 in cash.

c) Purchased goods for 1,00,000 at a trade discount of 10% and cash discount of 5% from

d) Mahek. Paid the cash on the same day and availed the cash discount.

e) Sold goods costing ₹1000 for 1,200.

f) Received dividend on securities ₹250.

g) Goods lost by fire ₹1000.

h) Purchased goods for cash ₹12,000 and on credit ₹15,000.

10. Mr. Pai started a business with a cash investment of ₹21,00,000. The following business transactions have been recorded:

a) Bought Car for Office ₹12,00,000.

b) Paid three months advance rent for office accommodation ₹2,520.

c) Purchased furniture ₹42,250.

d) Bought Computer from Computer Visions ₹25,000.

e) Sold furniture at cost to Peter for ₹21,000.

f) Peter paid ₹15,000 in Cash and accepted a bill at three months for the balance.

g) Paid telephone bill ₹2,500 and electricity bill of ₹4,500.

h) Peter paid the amount of the bill due on maturity.

i) Collected ₹3,500 as Commission and Commission received in advance ₹2,500.

j) Purchased goods for ₹11,250 at a trade discount of 10%.

PSYCHOLOGY

TASK 1

Practical file:

- Introduction to Psychological testing
- Goals of Scientific Enquiry
- Steps in Conducting Scientific Research
- Methods of Enquiry in Psychology
 - Observation method
 - Experimental method
 - Case study
 - Psychological tests
 - Interview method
 - Correlational Research
- Make it on loose sheets which is one side plane and the other side ruled. It should be black and white no coloured sheets will be accepted.
- Use black pen for heading and blue pen for rest of the file
- PDF for the same will be provided.

TASK 2

Activity: Conduct a Simple Survey

Create a short survey on a topic of interest (e.g., study habits, stress levels). Administer it to at least 15 people and analyse the results.

Submit the analysis of your survey along with the questionnaire.

TASK 3

Objective: The objective of this project is to help students recognize and apply psychological concepts in their daily lives, fostering a deeper understanding of the subject.

Instructions:

1. **Daily Journal:** Each student will maintain a daily journal throughout the holiday period. In this journal, they will record observations and experiences related to psychological phenomena they encounter in their everyday lives. Encourage them to be mindful of various aspects of human behaviour, cognition, and emotions.
2. **Weekly Reflections:** At the end of each week, students will write a reflection on their journal entries. They should analyse and interpret the observed phenomena using relevant psychological theories and concepts learned in class or through additional research.

3. **Application Projects:** In addition to journaling, students will choose one real-life situation or context (e.g., family dynamics, peer interactions, social media influence, decision-making, stress management) and apply psychological principles to analyse and propose solutions or strategies. They should demonstrate how psychological knowledge can be used to understand and address issues in their chosen context.
4. **Creative Expression:** Students will have the option to express their reflections and application projects creatively. They can choose from various formats such as:
 - Artwork (paintings, drawings, collages)
 - Creative Writing (poems, short stories, narratives)
 - Multimedia Presentations (videos, animations, digital storytelling)
 - Photography Projects
 - Role-plays or Skits
5. **Peer Sharing:** Towards the end of the holiday period, students will have the opportunity to share their journal entries, reflections, and application projects with their peers in a structured discussion or presentation session. This will allow them to learn from each other's experiences and perspective:

Submission: *Journal entries, weekly reflections, and application projects should be compiled and submitted to the teacher.*

BUSINESS STUDIES

VERY SHORT ANSWER QUESTIONS :

1. Name the enterprise run by a single owner.
2. State two limitations of sole proprietary business.
3. What is the position of liability in partnership?
4. Name the business organisation which can be formed by oral agreement among members.
5. Name the document prepared in partnership.
6. Which of the following form of organisation in sole proprietorship would not be suitable :
 - (i) Medical Store
 - (ii) Chartered Accountancy Firm
7. Name two limitations of partnership organisation.
8. Who is a sleeping partner?

9. What is the minimum number of members required to start a partnership firm?
10. Name any two contents of the partnership deed.
11. Mention any two features of cooperative society.
12. "A minor partner is a partner in profits only." Is this true or false? Describe the reason in one line.

SHORT ANSWER QUESTIONS :

1. Define Partnership. State its 4 features.
2. Which form of organisation will be suitable for the following type of business and why?
 - (i) Small retail outlet
 - (ii) Hotel
 - (iii) Shopping Mall
3. Discuss two merits and two limitations of partnership.
4. Describe briefly the following terms:
 - (i) Active Partner
 - (ii) Sleeping Partner
 - (iii) Nominal Partner
5. Name and explain the partner who assumes liability without sharing in the profits of the business.
6. Explain the features of partnership given below :
 - (i) Liability (ii) Registration
 - (ii) Control and Decision making
7. Akshit, Bhanu and Chandu started a firm for manufacturing horticulture tools. Akshit and Bhanu were participating in business activities whereas Chandu was not interested to be involved in day to day activities, however contributed his share of capital. Dhanush, a friend of Akshit was in this line of business and had goodwill in the market. He allowed his name to be used for the promotion of business. Bhanu wanted his minor son Evlin, to be associated in the business. All the members gave consent to associate Bhanu's son in the business.

- (i) Who are the active partners in the business?
 - (ii) State the nature of association of Chandu in the business.
 - (iii) Is Evlin (Bhanu's minor son) responsible for the liabilities of the business?
8. Classify Business activities and briefly describe them.
 9. Define Industry. Explain various types of Industries with examples.

LONG ANSWER QUESTIONS :

1. Describe the various kinds of partners in a partnership firm.
2. Distinguish between a private company and public company.
3. Define cooperative societies. Explain its main characteristics.
4. Despite limitations of size and resources, many people continue to prefer sole proprietorship over other forms of organization. Why?
Explain giving at least 5 reasons.
5. Mohini is a friend of Sneha who is a partner in a software firm Om Namah Shivay solutions. On Sneha's request, Mohini accompanies her to a business meeting with Jai Shri Ram Software and actively participates in the negotiation process for a business deal and gives the impression that she is also a partner in Om Namah Shivay Solutions. Three months credit is extended to Om Namah Shivay solutions on the basis of these negotiation. On the basis of the given information about Mohini, answer the following:
 - a) Will Mohini be liable to the lender if Sneha does not make payment to him by the due date?
 - b) Specify and explain Mohini's role in the aforesaid situation.
6. What is partnership deed? What is its role in partnership firm?
Discuss its main contents.
7. "One man control is the best in the world, if that man is big enough to manage the whole show." Explain and comment.
8. Siya and Jiya want to start a shop to sell Punjabi sweets. They did not know how to develop the agreement for this purpose. So, they approached a Chartered Accountant who advised them to prepare a document which may

stipulate the terms and conditions of the agreement. On the basis of given information, answer the following :

- (a) Name the document about which the Chartered Accountant advised Siya and Jiya.
 - (b) State any four important items they should include in the agreement name, nature and place of business.
9. What are the different stages in formation of a company? Explain.

MUSIC

Make project file on the following topics

Notation of Drut khyaal of

- Raga Bhimplasi
- Raga Bhairavi

Notation of

- Teentala
- Ektala
- Chartala

With it's Ekgun, Dugun and Chaugun

PHYSICAL EDUCATION

Write Down 10 to 15 Pages Project on Asian Games 2026 Comprising

1. History
2. Event
3. Venue
4. Indian Players

DANCE

Prepare the following topics :-

1. Gharanas of Kathak
2. Teen taal and Keharwa taal (Single & Double)
3. Taal and Laya
4. Short Definitions
5. Classical Dances of India

LEGAL STUDIES

PROJECT WORK

A. Prepare a research project addressing LEGAL ISSUES related to the textbook or around them that needs immediate redressal.

Some suggested topics: -

- *Women Rights and marital rapes
- *Technology, AI and data
privacy
- *Criminal Justice Reform
- *Protection of child Rights in India
- *Right to education in India
- *Women safety and changing social norms
- *Artificial intelligence and law
- *Juvenile Justice
- *Death Penalty
- *Crime against *Women
- *Increasing Divorce Cases in India
- *Right to privacy
- *Domestic violence
- *Child Labour

Guidelines to be followed:

- Length of the Project (25-35 pages)
- Paste colourful pictures to support your content.
- Informative and relevant content.
- Neat and presentable file.
- The project file should have spiral binding.

B. Conduct research and draft a report on any recent law that brought about a social change, for example:

Consumer Protection Act

Information Technology Act

Right to Information Act.

Recognition of Live-in-Relationships

Elimination of Child Labour

Public Interest Litigation

2. Compare the High Court of Odisha with Punjab and Haryana High Court.(minimum 200 words).

COMPUTER SCIENCE

1. Solve the following :

- i. $(48)_{10}$ to $(?)_2, (?)_8, (?)_{16}$
- ii. $(CAFE)$ to $(?)_8$
- iii. $(347)_8$ to $(?)_2, (?)_{16}$
- iv. $(BEAD.23)$ to $(?)_8$

2. Complete the following table

MEMORY UNIT	STORAGE CAPACITY
1 BYTE	
1 TB	
	1024 GB
	1024 TB
1 KB	
	0/1
1GB	

3. Write the storage capacity of following devices:

Disk/Drive Name	STORAGE CAPACITY
1. CD	

- | | |
|---|--|
| <ul style="list-style-type: none"> 2. DVD 3. BLU - RAY 4. HARD-DISK 5. MEMORY STICK 6. FLOPPY-DISK | |
|---|--|

4. Draw logic circuit for the following:

i. $Y = AB + BC(B + C)$

ii. $z = ab + \bar{b}c + \bar{c}\bar{a}$

5. Verify De Morgan's Laws using truth tables.

$$A + B = \overline{\overline{A} \cdot \overline{B}}$$

$$\overline{AB} = \overline{A} + \overline{B}$$

6. REAL LIFE TECH EXPLORER

Investigate Your Own Computer/Mobile
Find and write:

Component	Details
Processor Name	_____
RAM Size	_____
Storage Capacity	_____
Operating System	_____

Note: Do this work in fair notebook.

AIL: Create a QUIZ PPT on Punjab & Orissa. (Minimum 10 questions with answer slides and use proper graphics and animation.)

Note: submit your PPT at skmvai3@gmail.com with your name & Class

FINE ARTS

Make two landscape paintings (nature scene, city scene, railway station, or bus stand) on a canvas board and a half sheet.

Still life - any 2 (size -Half sheet or Canvas) Composition - any 2 (Half sheet)

APPLIED MATHS

General Instruction:

Do these questions on loose sheets.

1. Write the following sets in the roster form.

(i) $A = \{x \mid x \text{ is a positive integer less than } 10 \text{ and } 2x - 1 \text{ is an odd number}\}$

(ii) $C = \{x : x^2 + 7x - 8 = 0, x \in \mathbb{R}\}$

2. Let $U = \{1, 2, 3, 4, 5, 6\}$, $A = \{2, 3\}$ and $B = \{3, 4, 5\}$.

Find A' , B' , $A' \cap B'$, $A \cup B$ and hence show that $(A \cup B)' = A' \cap B'$.

3. Let $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{2, 4, 6\}$, $B = \{3, 5\}$ and $C = \{1, 2, 4, 7\}$, find

(i) $A' \cup (B \cap C')$. (ii) $(B - A) \cup (A - C)$

4. The mean of 5 observations is 4.4, and their variance is 8.24. If three of the observations are 1, 2, and 6, find the other two observations.

5. If A and B are subsets of the universal set U , then show that

(i) $A \subset A \cup B$

(ii) $A \subset B \Leftrightarrow A \cup B = B$

(iii) $(A \cap B) \subset A$

6. A , B and C are subsets of Universal Set If $A = \{2, 4, 6, 8, 12, 20\}$, $B = \{3, 6, 9, 12, 15\}$, $C = \{5, 10, 15, 20\}$ and U is the set of all whole numbers, draw a Venn diagram showing the relation of U , A , B and C

7. Add the following binary numbers:

(i) $11010 + 11100$

(ii) $101011 + 110101$

8. Subtract the given binary number and check the result by converting to the decimal system: 11010 from 110101

9. Multiply the given binary number and check the result by converting to the decimal system: 101001 and 110110

10. Convert the given decimal number 569 to the binary number.

11. Convert the decimal number 946 to the binary number.
12. Convert the given binary number to the decimal number: 1111010
13. Convert the decimal fraction 0.35 to a binary fraction.
14. Perform the binary division:

$$11001 \div 101$$

15. Find the mean deviation about the mean for the following series :

12, 3, 18, 17, 4, 9, 17, 19, 20, 15, 8, 17, 2, 3, 16, 11, 3, 1, 0, 5

Activity - Make a clock using binary numbers instead of normal numbers.

Materials Required :Cardboard, LEDs or colored paper,Marker, Battery (optional)

Eco Club Summer Green Mission

Theme for the Session

“Small Green Steps, Big Future Changes”

Eco Club Slogan

“Save Nature Today, Secure Tomorrow.”

Event Name

“My Kitchen Garden Mission”

Activity Details

Students will create a small kitchen garden at home using any one of the following:

- Pots
- Recycled bottles
- Trays
- Balcony space
- Terrace area
- Backyard soil


Students may select and grow:


- Coriander

- Mint
- Spinach
- Tomatoes
- Chillies
- Fenugreek
- Basil
- Any other seasonal vegetables/herbs

Student Tasks

Students Will Submit an Observation Report on an A4 Sheet:

 Paste 1–2 photographs while planting.

 Write about:

- Weekly growth record
- Plant grown
- Duration taken for growth
- Challenges faced during gardening