

**LT. COL. MEHAR LITTLE ANGELS SR. SEC. SCHOOL**  
**CLASS XI HOLIDAYS HOMEWORK**  
**SESSION 2025-2026**

**ENGLISH (CORE) 301**

Do any one of the following Questions:

A. Power Point Presentation.

Based on the chapter 1 - The Portrait of a Lady/ by Khushwant Singh,

Prepare a Power Point Presentation.

Compare and contrast the characteristics of the author's grandmother with that of your own grandmother.

Please note the following points:

1. Give a title to your presentation.
2. Add some pictures of your grandmother.
3. Number of slides should be 7-10.
4. Also write a note on your association with your grandmother.
5. Make it attractive and colorful.

OR

Create a podcast max 3minutes /documentary / standup comedy / a short commercial [audio or visual] addressing any social issue / stereotype / superstition / painting or poetry.

B. Research on Khushwant Singh's life and works.

Find out about the role of Khushwant Singh's father in building Delhi. Write your findings in your notebooks with pictures.

C. Cut out 5 clippings of Classified Ads under the heads –

- i. For sale
- ii. To-let
- iii. Situations vacant

**PHYSICS**

1. Complete practical file work and Auxiliary copy for following four practicals.

**Experiment No .1:** To measure the diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Calipers and hence find its volume.

**Experiment No .2:** To measure the diameter of a given wire and thickness of a given sheet using screw gauge.

**Experiment No .3:** To find the weight of a given body using parallelogram law of vectors.

**Experiment No .4:** To study the relationship between force of limiting friction and normal reaction and to find the co- efficient of friction between a block and a horizontal surface.

2. Complete Activity file with following 3 activities.

- (a) To measure the force of limiting friction for rolling of a roller on a horizontal plane.
- (b) To study the variation in range of a projectile with angle of projection.
- (c) To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.

3. Complete classwork copy.

4. Do all the numericals done in class in Homework copy separately.

**CHEMISTRY**

1. Complete the practical work (Experiment no. 1-13) in chemistry practical notebook from the pdf file.

## **MATHEMATICS**

- I. Make a portfolio based on RENOWNED MATHEMATICIANS AND THEIR CONTRIBUTION in 6/8 colourful pages.
- II. Make a beautiful A-4 size cover page based on mathematics shapes.
- III. Do any 2 activities from mathematics lab manual.
- IV. Do following assignment in rolled sheets.

Note: Submit above work in a clear bag after vacation mentioning your roll number, name, class and section.

### **ASSIGNMENT**

1. Write down the all possible proper subsets of the set  $\{1,2\}$ .
2. Describe the following sets in set builder form;  
(i)  $A=\{1,2,3,4,5\}$  (ii)  $B=\{1,1/2,1/3,1/4,\dots\}$
3. Write the following intervals in the set -builder form  
(i)  $(1,3]$  (ii)  $[3,4]$
4. Let  $U=\{1,2,3,4,5,6,7,8,9\}$ ,  $A=\{2,4,6,8\}$ ,  $B=\{2,3,5,7\}$  find that  
(i)  $(A \cup B) \times (C \cup D)$
5. Let  $A=\{1,2,3,4,\dots,14\}$ . Defined a relation R in set A to A by  $R=\{(x,y): 3x-y=0, \text{ where } x,y \in A\}$   
Write domain, co-domain and range.
6. Write short note on the following functions and draw their graph
  - a- Odd function
  - b- Even function
  - c- Exponential function
  - d- Logarithmic function
  - e- Greatest integer function
  - f- Signum function

## **COMPUTER SCIENCE**

COMPLETE THE FOLLOWING QUESTIONS IN COMPUTER SCIENCE REGISTER.

- Q1. What is the function of CPU in a computer system? What are its subunits?
- Q2. What functions are performed by the control unit? Can we call it the control centre of computer system? Why?
- Q3. What functions are performed by the ALU? Is it an independent unit? If not, which unit does ALU work in coordination with?
- Q4. Distinguish between CPU and ALU.
- Q5. What is the function of output unit in a computer system? Give examples of some output devices.
- Q6. What role does memory play in the functioning of computer system?
- Q7. Define each of the following: (a) byte (b) kilobyte (c) megabyte (d) gigabyte (e) terabyte.
- Q8. What is the meaning of the term volatile primary memory? What can be done to overcome the problems of volatility?
- Q9. Distinguish between internal and external memory.
- Q10. What is the role of memory in a computer functioning? What types of memory does the computer work with?
- Q11. What are RAM and ROM? How are they alike? How are they different? What are EEROM, PROM and EPROM?
- Q12. What is system software? What role does it play in the functioning of the computer?

### **(Practical Programs)**

1. Write Python Program to find the Area and Circumference of a Circle
2. Write Python Program to find the Area of Triangle
3. Write Python Program to obtain P. R and Time and Calculate the Simple Interest.
4. Write Python Program to obtain a number N from the user and check it is multiple of 7 or not.
5. Write Python Program to Find Greater No. among the given three Numbers
6. Write a Python Program to obtain marks of 5 Subjects, calculate the Percentage and print it.
7. Write Python Program for Converting Temperature Celsius into Fahrenheit
8. Write Python Program to Check If the Number Is Positive. Negative, or Zero.
9. Write a Python Program to Calculate the Factorial of a Given Number
10. Write Python Program to Check Number N obtained from the user Is Even or Odd.

## **ECONOMICS (030)**

1. Make a project on any one of the following suggested topics as discussed in the class.

Suggestive List of Projects:

- Effect on PPC due to various government policies
- Invisible Hand (Adam Smith)
- Opportunity Cost as an Economic Tool (taking real life situations)
- Effect of Price Change on a Substitute Good (taking prices from real life visiting local market)
- Effect on equilibrium Prices in Local Market (taking real life situation or recent news)
- Effect of Price Change on a Complementary Good (taking prices from real life visiting local market)
- Solar Energy, a Cost Effective Comparison with Conventional Energy Sources
- Bumper Production- Boon or Bane for the Farmer
- Any other newspaper article and its evaluation on basis of economic principles
- Any other topic

2. Make a PPT on Consumer's equilibrium using cardinal utility approach.

## **BUSINESS STUDIES**

Ch:1 Fundamentals of business

Ch:2 Forms of business organisation

Ch:9 Internal trade

Do all the MCQ and Case studies from Subhashdey book

Practical file: Sources of business Finance

## **ACCOUNTANCY**

**Ques 1** What will be the effect of following on the accounting equation:

1. Purchase goods for rupees 20,000 from Mahesh on credit
2. Sold goods to Suresh costing 8000 for 10,000 in cash
3. Paid wages 500
4. Withdrew cash for private use 2000
5. Paid to creditors 2000

**Ques 2** Prepare accounting equation from the following

1. Started business with cash one 1,00,000
2. Purchase furniture for cash 5000
3. Purchase goods on credit 20,000
4. Paid rent 36,000
5. Goods costing 40,000 sold at a profit of 20% for cash

**Ques 3** From the following transactions prepare accounting equation and also prepare balance sheet:

1. Started business with cash 1,20,000
2. Purchase a typewriter for cash 8000 for office use.
3. Purchased goods for 50,000 on cash and 40,000 on credit
4. Goods costing 60,000 sold for 80,000 on credit
5. Paid rent 1500 and salaries 2000
6. Received 800 for commission
7. Withdrew for private use 5000 in cash

**Ques 4** What will be the effect of the following on accounting equation

1. Harish started business with cash 1,80,000
2. Purchase goods for cash 60,000 and credit 30,000
3. Sold goods for cash 40,000 costing 24,000
4. Rent paid 5000 and rent outstanding 2000
5. Sold goods on credit 50,000 costing 38,000
6. Salary paid in advance 3000

**Ques 5** Prepare an accounting equation from the following transactions and also prepare balance sheet:

1. Mohan commenced business with cash 1,00,000
2. Bought goods for cash 60,000

3.  $\frac{1}{3}$ <sup>rd</sup> of the goods sold at the profit of 20% on cost. Half the payment received in cash
4. Purchase a typewriter for office use 15,000
5. Purchase goods on credit 25,000
6. Paid to creditor 15,000, salary 3,000, received commission 500.

**Ques 6** Show an accounting equation on the basis of following transactions:

- Arun started business with cash 1,50,000
- Opened a bank account by depositing cash 25,000
- He sold his personal car and deposited the amount in firm's bank account 50,000
- He purchased a building and furniture for 1,00,000
- Purchased good from ram 50,000
- Paid cartage 500
- Sold goods to Shyam costing 6,000 for 9,000
- Received rent from tenants 1,000
- Received security deposits from tenants 1,500
- Purchased stationary for cash 100
- Invested in shares (personal) 50,000
- Received interest in cash 200

**Ques 7** Show an accounting equation on the basis of following:

- Started business with cash 60,000 and goods 30,000
- Purchase goods for cash 40,000 and on credit 25,000
- Goods costing 48,000 sold at a profit of 33.33%. Three fourth payment received in cash.
- Good costing 20,000 sold at a loss of 5% out of which 12,000 received in cash.
- Paid rent 4000 and salary 6000.
- Received cash from debtors 15,000
- Paid telephone bill 800.

**Ques 8** If the capital of business is 1,00,000 and outside liability is 60,000. Calculate total assets of the business.

**Ques 9** If total assets of a business are 2,00,000 and net worth (capital) is 1,50,000, calculate creditors.

**Ques 10** A commenced business on 1<sup>st</sup> April 2017 with capital of 5,00,000, his assets were worth 7,80,000 and liabilities 70,000. Find out his closing capital and profits earned during the year.

**Ques 11** Mohan started business on 1<sup>st</sup> April 2022 with capital 7,50,000 and a loan of 2,00,000. On 31<sup>st</sup> march 2023 his assets were 15,00,000. No amount of loan was repaid during the year. Find out his closing capital and amount of profit made or loss incurred during the year.

**Ques 12** Journalise the following transactions:

2025	Transactions	Rs
Jan 1	Ved started business with cash	5,00,000
2	Purchased furniture for cash	60,000
4	Purchased goods for cash	47,000
5	Bought goods from Nirmal	28,000
10	Paid cash to Nirmal	28,000
16	Purchased goods from Rakesh	12,500
18	Purchased goods from Rakesh for cash	15,000
20	Paid rent for the office	5,000

**Ques 13** Enter the following transaction in the journal of m/s Sunil and sons:

1. Sold goods for cash 50,000
2. Sold goods to Narayan 35,000
3. Received cash from Narayan 20,000
4. Received commission 1,800
5. Paid salary to Gopal 10,000
6. Received cash from Narayan 15,000
7. Withdrew cash from office for personal use 20,000
8. Wages paid 16,400

9. Bought machinery for cash 80,000

**Ques 14** Pass journal entries for the following transactions:

1. Bought goods of list price 6,000 from Khanna bros. less 15% trade discount and 2% cash discount and paid 40% price at the same time.
2. Received a draft from Mohan in full settlement and deposited into bank 9,750
3. Purchased goods from Suresh of list price of 8,000 at 20% trade discount and paid by cheque.
4. Sold goods and received a cheque 25,000
5. Deposited the above cheque into bank.
6. Sohan deposited in our bank A/c 4,000
7. Paid income tax by cheque 5,600
8. Received a cheque from Sohan and sent to bank 7,800  
Discount allowed 200.
9. Withdrew from bank for office use 2,000 and for personal use 4,000.
10. Sent a cheque to X in full settlement of hi account 4,900
11. Cheque of Sohan returned by bank as dishonoured.
12. Dinesh was declared insolvent and payment of 60 paise is received from his estate by a cheque.
13. Bank allowed interest 350
14. Paid for rent by cheque 1,500
15. Paid for travelling expenses by cheque 500

**Ques 15** Journalise the following transactions, post them into ledger, and prepare a trial balance of them:

2023		Rs
1 March	Ravi Prakash commenced business with cash	80,000
2	Purchased goods for cash	36,000
3	Machinery purchased for cash	4,000
4	Purchased goods from: Raghu Dilip	22,000 30,000
6	Returned goods to Raghu	4,000
8	Paid to Raghu in full settlement of his account	17,500
10	Sold goods to Mahesh Chand & Co. for 32,000 at 5% trade discount.	
13	Received cash from Mahesh Chand & Co.	19,800
	Discount allowed.	200
15	Paid cash to Dilip	14,850
	Discount received	150
20	Sold goods for cash.	25,000
24	Sold goods for cash to Sudhir Ltd.	18,000
25	Paid for rent	1,500
26	Received for commission	2,000
28	Withdrew by proprietor for personal use	5,000
28	Purchased a fan for proprietor's house	1,200

### **HOME SCIENCE**

Complete assignment 1 to 4.

### **PHYSICAL EDUCATION**

#### **PROJECT WORK**

Prepare project file as per the latest cbse norms.

Practical-1: Fitness tests administration. (SAI Khelo India Test)

Practical-2: Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.

Practical-3: Anyone one IOA recognized Sport/Game of choice.

Labelled diagram of Field & Equipment.

Also mention its Rules, Terminologies & Skills.

## **INFORMATICS PRACTICES (LP)**

I. Make Power Point Presentation on the following topics: EMERGING TRENDS (AI, IoT, Blockchains etc)  
(Meaning, History, Advantages, Application/Uses, Software's involved, Types etc)

Note: Prepare 17- 20 slides using all the tools and features of PPT.

II. Prepare a practical file (Softcopy), of SQL queries assignment given below.

Q1. Write the SQL commands on the basis of the given table:

**Table: Student**

Sid	Sname	Class	Sec	Sage	Scity	Per
S12	RAM	X	A	15	Delhi	85
S13	RADHIKA	X	B	15	Delhi	95
S45	AMAN	XI	C	14	Pune	85
S66	SUBHAM	XI	A	13	Pune	75
S23	KRITIKA	X	C	16	Delhi	53
S98	AMITA	X	A	16	Agra	49
S78	SUMIT	XI	B	15	Delhi	99
S90	RAJ	X	B	15	Agra	82
S22	ANIL	XI	C	14	Pune	63
S33	HIMANSHI	X	C	15	Delhi	45

Write SQL queries on the basis of above table Student.

1. Create the given table.
2. Add any 3 records in the table.
3. Display full table.
4. Display studentid, students name and age.
5. Display details of all students who are in class XI.
6. Display all the student details those who belongs to Delhi City.
7. Display all the student details that belong to Delhi and Pune.
8. Display all the student details who scored 80% and above.
9. Display all the student details who scored in the range of 40 to 60.
10. Show the details according to the age in descending order.
11. Show the details according to the student id in ascending order.
12. Change the percentage of S33 to 48.
13. Modify the Sec of Anil to B.
14. Update the city of Raj to Pune.
15. Remove the details of S33.

Q2. Write the SQL commands on the basis of the given table:

**Table:-SUPPLIER**

SNo	Pname	SName	Qty	Price	City
S1	Bread	Britannia	150	30	Delhi
S2	Cake	Britannia	250	20	Mumbai
S3	Coffee	Nescafe	170	45	Mumbai
S4	Chocolate	Amul	380	10	Delhi
S5	Sauce	Kissan	470	36	Jaipur

1. Create a database SHOP.
2. Create table Supplier.
3. To insert first record in the table.
4. To select all the columns of the above table.
5. To Display the structure of the table.

6. To select the Pname and SName from the above table.
7. Display data for all products whose quantity is between 170 and 370.
8. Display data for all products sorted by their quantity.
9. Give Sname for that entire product whose name starts with “C”.
10. Display the product name and quantity whose name contains “A”.
11. To list Pname, Sname, Price for all the products whose quantity is less than 200.
12. Display all the Pname with their Price in descending order.
13. To display the distinct Supplier Name from the table.
14. To list the product name which are in 150, 170, 200.
15. Update the price of the Product – Kissan to Rs. 40.00 of Jaipur City.
16. Add one more column Phone of type int(10) in the table.
17. Drop the column Phone from the table.
18. Modify the column Phone of varchar(10).
19. Change the column name from Phone to the MobileNo.
20. Delete the record from the table whose SNo is S10.

Q3. Write the SQL commands on the basis of the given table:

**Table:-HOSPITAL**

NO	NAME	AGE	DEPARTMENT	DATEOFADMIN	CHARGES	GENDER
1	Arpit	62	Surgery	2008-01-12	300	M
2	Zarina	22	ENT	2007-12-12	250	F
3	Kareem	32	Orthopaedic	2008-02-19	200	M
4	Arun	12	Surgery	2008-01-11	300	M
5	Zubin	30	ENT	2008-01-12	250	M
6	Ketaki	16	ENT	2008-02-24	250	F
7	Ankita	29	Cardiology	2008-02-20	800	F
8	Zareen	45	Gynaecology	2008-02-22	300	F
9	Kush	19	Cardiology	2008-01-13	800	M
10	Shilpa	23	Nuclear Medicine	2008-01-20	400	F

1. Write the command to create hospital table.
2. Write the command to insert the first row
3. To select all the information of patients of cardiology department.
4. To list the names of female patients who are in ENT department.
5. To list names of the all patients with their date of admission in ascending order.
6. To count the number of patients with age<30.
7. To display Patient’s Name, charges, Age of only female patients.
8. Display the department wise total charges.
9. Display the department wise total charges whose maximum charges more than equal to 300.
10. To list the patients whose name starts from the letter “Z”.
11. To list the distinct department from the table.
12. Add one more column in the above table as Address of type char(20).
13. Modify the column of the Column Address to Home\_Address.
14. Drop the column Address.
15. Change the name of the column Address as char(20)
16. Describe the structure of the above table.
17. Select COUNT(Distinct charges) from HOSPITAL.
18. Select MIN(Age) from HOSPITAL where gender = ‘F’.
19. Select SUM(Charges) From HOSPITAL where Department = ‘ENT’.
20. Select AVG(charges) from HOSPITAL where dateofadmin<’2008-02-12’.

## **HISTORY**

I. Make a chart on Timeline I, Timeline II, Timeline III and Timeline IV.

II. Make a Project on any one topic

1. Facets of the Industrialization in sixteenth- eighteenth centuries.
2. Crusades: causes; rationale; events; outcomes; Holy Alliance
3. Ancient History in depth: Mesopotamia
4. Greek Philosophy and City States
5. Contributions of Roman Civilization
6. The spirit of Renaissance: Manifestation in art; Literature; Sculpture; Influence on Trading Community; Social Fabric; Philosophy; Political Values; Rational Thinking; Existentialism
7. Aspects of Development -South American States /Central American States
8. Different schools of thoughts- Realism: Humanism: Romanticism
9. Piecing together the past of Genghis Khan
10. Myriad Realms of Slavery in ancient, medieval, and modern world
11. History of Aborigines – America /Australia
12. Facets of Modernization – China /Japan/Korea

Project should be hand written.

Make it on A4 size plain white ivory sheet.

Mention:

Topic  
Certificate  
List of Content  
Need to study, Objective of the Study  
Hypothesis Content- Timeline, maps, mind maps, pictures  
Explanation of topic  
Paste related pictures  
Conclusion  
Bibliography

## **POLITICAL SCIENCE**

I. Make a Project on any one topic

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.
6. Political impact on Indian Legislation's.

Project should be hand written.

Make it on A4 size plain white ivory sheet.

Mention:

Topic  
Certificate  
List of Content  
Need to study, Objective of the Study  
Explanation of Topic  
Paste related pictures  
Conclusion  
Bibliography