

**Suditi Global Academy, Mainpuri**  
**Summer Home Assignment (2024-25)**  
**Class-12<sup>th</sup>**

**SUBJECT: 027-HISTORY**

1. Write an essay on the archaeological survey of India (ASI)
2. Watch the movie on Harappa civilization?
3. Watch the movie 10000 BC and make a notes on this movie's story.
4. Watch the documentary on the great Maurya Empire and make a long not on Maurya Empire.
5. Collect the information about Ashoka The great emperor .
6. Watch the Mahabharata and Ramayan.
7. Write a note on Chanakya niti.
8. Must watch the movie 12th fail.

**SUBJECT: 028-POLITICAL SCIENCE**

1. Watch the documentary on India and China relation.
2. Write an essay on ideology of socialism.
3. Watch the documentary on new Indian parliament.
4. Read the book named "Discovery of India "written by pt Jawahar Lal Nehru
5. Deeply study on the topic of India's foreign policy and make these notes.
6. Deeply describe about the Indian politics.
7. Watch the documentary NGO.
8. Watch the movie named "Kashmir file "and "Kerala file".

**SUBJECT: 029-GEOGRAPHY**

1. Visit the field to identify the type of soil found in your locality discuss the factors responsible for the formation of that soil.
2. Visit nearest Centre practicing or having rainwater harvesting structure collect it photos and make a report based on your experiences.
3. Conductor survey on workers under different sectors in your locality for better understanding of their condition.
4. With the help of maps identify the type of settlements found in your locality.

**SUBJECT: 030-ECONOMICS**

- Find out the inflated/ high price and percentage of these product till this month to last 2 years . (in kg )  
Milk , butter , flour , Basmati rice , pulses , ground nut , dry fruit , sweets , vegetables like potato , tomato , ginger , chilly , onion , garlic .
- Write the Economical benefits of G20 Summit to India .

**SUBJECT: 034-HIND MUSIC.VOCAL**

Focusing on music journey of miya Tansen and draw the life skech.

Or

Focusing on music journey of lata mangeshkar and draw the life sketch.

**SUBJECT: 039-SOCIOLOGY**

1-Caste system in India is based on discrimination and exploitation. watch any movie on this theme and suggest ways to reduce negative effects of the caste system.

2-Search reason for low female literacy rate and male-female ratio in India and write down a short note.

3-Search the social effects of Corona as a pandemic.

**SUBJECT: 041-MATHEMATICS**

Ch- 1 Relation and function

Type of relations with example

Type of function with example

Domain and Range of functions

Ch-2 ITF

Graphs of all ITF

Write down the domain and Range of all six ITF functions.

Domain of ITF functions

Exercise 2.2

Ch 3 Matrices

Types of Matrices

Product and addition of Matrices

Transpose of Matrices

Miscellaneous exercise

**SUBJECT: 042-PHYSICS**

1.Solve all NCERT questions of Chapter -1 I.e Electric Charges and Fields.

2. Write all physics experiments prescribed as per new syllabus in your lab manual (maximum 10 experiments ) with the help of pdf provided.

3. Chose any one topic from your syllabus & draw circuit diagram / ray diagram on chart paper & labelling it. Note- Solve NCERT exercise on your physics notebook.

In lab manual except reading of the experiment write everything i.e diagram , theory, observation table without reading.

#### **SUBJECT: 043-CHEMISTRY**

##### 1. Comparative Analysis:

- Compare and contrast the properties of haloalkanes, haloarenes, alcohols, phenols, and ethers. Highlight similarities and differences in physical and chemical properties, reactivity, and uses.

##### 2. Reaction Mechanisms:

- Choose one representative compound from each functional group and research their key reactions. Present detailed reaction mechanisms for notable reactions, such as nucleophilic substitution, elimination, oxidation, and ether synthesis.

##### 3. Synthetic Pathways:

- Design synthetic pathways to prepare specific haloalkanes, haloarenes, alcohols, phenols, and ethers from readily available starting materials. Include reaction conditions, reagents, and purification methods for each synthesis.

##### 4. Case Studies:

- Investigate real-world applications of haloalkanes, haloarenes, alcohols, phenols, and ethers in industries such as pharmaceuticals, agrochemicals, perfumery, and materials science. Analyze the role of these compounds in product synthesis and their impact on society and the environment.

##### Submission Guidelines:

- Submit written assignments in a well-organized format with clear headings and subheadings.

- Include labeled diagrams, reaction schemes, and spectral data interpretations where applicable.

By completing these tasks, you will deepen your understanding of organic functional groups and their significance in chemistry and everyday life. Have a productive and enjoyable learning experience!

#### **SUBJECT: 044-BIOLOGY**

1. Create botanical illustrations and artworks depicting pollination, fertilization, and seed dispersal.

2. Produce animations, sculptures, or collages representing plant reproduction processes.

3. Research human reproductive systems and reproductive health.

4. Create anatomically accurate illustrations and mixed media artworks depicting human reproduction.

5. Watch the following movies:

### **"The Miracle of Life" (1983)**

Educational Benefits: "The Miracle of Life" offers a visually captivating and scientifically accurate portrayal of human reproduction. It provides valuable insights into the biology of human development, making it an excellent resource for understanding reproductive processes.

### **"The Botany of Desire" (2009)**

Educational Benefits: "The Botany of Desire" offers a unique perspective on plant reproduction by exploring the coevolutionary relationships between plants and humans. It highlights the ways in which plants have adapted to exploit human preferences and behaviors to ensure their own survival and propagation.

### **SUBJECT: 048-PHYSICAL EDUCATION**

Sports Management and sports Nutrition, Revise both the Units.  
Write down History, Terminology, Fundamental Skill of Game of Specialization.  
Draw a standard track of 400 Mtr. Write down the calculation, layout the neat clean diagram.

### **SUBJECT: 049-PAINTING**

1-Make a Portrait using a charcoal Pencil of any famous personality you like.

2-Write a research based note on given topic with appropriate pictures -

(i)The Rajasthani School of Miniature Painting.

3-Make a Painting File using **Six** pictures. Choose from the topics mentioned below –

1-One Folk Art (Madhubani/Mandala/Warli)

2-Any Two Composition in your course (Radha Bani-Thani/ Falcon on a Bird Rest/ Krishna with Gopis)

3-Any Two Flowers (Rose/ Dahlia/ Hibiscus)

4-One coloured Landscape (One Animal and One Human figure is compulsory in Landscape)

### **SUBJECT: 054-BUSINESS STUDIES**

#### **❖ VISIT TO A MARKET OR A MALL**

THINGS TO EXAMINE OVER THERE

- TYPE OF MARKET
- TYPE OF CUSTOMERS
- DIFFERENT TYPES OF SHOPS AVAILABLE IN THE MARKET AND THEIR ADVERTISEMENT STRATEGIES APPLIED BY THEM ALSO PASTE SOME PICTURES OF IT
- TYPE OF MANAGEMENT USED
- PRINCIPLES APPLIED OVER THERE
- SUGGEST SOME WAYS BY WHICH MARKET CAN BE MORE EFFECTIVE
- APPLY PICTURES DURING THE SURVEY OF THE MARKET OR THE MALL WHICH YOU HAVE CHOSEN FOR YOUR PROJECT

**SUBJECT: 055-ACCOUNTANCY**

1. **Prepare the File for Record Keeping:**
  - Create a file to maintain records related to the activities mentioned.
  - Ensure that the file is organized and easily accessible.
2. **Setting Up Your Class Group as a Partnership Firm:**
  - Choose a suitable name for your partnership firm.
  - Draft a **Partnership Deed** that outlines the terms and conditions among the partners. This deed is crucial for the smooth functioning of the firm.
  - The Partnership Deed should include the following details:
    - Names of partners
    - Capital invested by each partner
    - Interest on capital for sleeping partners
    - Interest on drawings
    - Salary of partners, if applicable
3. **Study the Deeds of Five Partnership Firms:**
  - Research and analyze the partnership deeds of five existing firms.
  - Write a one-page summary for each firm, covering details about their partners, capital structure, and any other relevant information.
4. **Analyze a Listed Company's Balance Sheet:**
  - Obtain the balance sheet of a listed company.
  - Identify specific items within the balance sheet, including their amounts and corresponding headings and subheadings.
5. **Solving NCERT Exercise on Partnership Basics:**
  - Refer to your NCERT textbook for the exercise related to partnership basics.
  - Work through the questions and solve them systematically.

**SUBJECT: 065-INFORMATICS PRACTICE**

**Objective:**

The aim of this summer assignment is to deepen your understanding of Informatics Practices concepts and their practical applications. Through a series of projects, you'll delve into database management, programming, web development, and data analysis, honing your skills for future academic pursuits and professional endeavors in the IT domain.

**1. Database Design and Implementation:**

**Task:** Design a relational database system for a school management system. Identify key entities, attributes, and relationships. Normalize the database. Implement the database using MySQL. Populate the database with sample data and demonstrate CRUD(Create, Read, Update and Delete) operations.

**Resources:**

Online tutorials on database design, Informatics Practices class XII (Sumita Arora), NCERT book , DBMS documentation and SQL guides.

## 2. Programming Project:

**Task:** Develop an menu driven application on student management system using object-oriented programming principles. Use Python Language to construct it with the help of conditional statement , loops ,statements(break ,continue etc.). implement functionalities to add, edit and delete students.

### Resources:

Object-oriented programming tutorials and textbooks, , Informatics Practices class XII (Sumita Arora), NCERT book etc.

## 3. Assignments:-

**Task:** Some subjective assignment list sent to your WhatsApp group. Do all assignments in your IP Note Book.

### SUBJECT: 066-ENTREPRENEURSHIP

#### SURVEY OF A PRODUCT OF DIFFERENT COMPANIES

#### THINGS TO REMEMBER WHILE DOING THE SURVEY

- SELECT ANY 5 COMPANIES OF YOUR PRODUCT
- MAKE A QUESTIONNAIRE( MINIMUM 20 QUESTIONS )
- QUESTIONS IN THE QUESTIONNAIRE IS RELATED TO YOUR PRODUCT ANALYSING WHICH COMPANY IS BETTER AS PER CONSUMER FEEDBACK
- DATA MUST BE COLLECTED OF MINIMUM 25 CONSUMERS USING THAT PRODUCT (ATTACH ALL THE FFEDBACK COLLECTED BY YOU IN THE PROJCT FILE SUBMITTED BY YOU)
- ANALYSE THE QUESTIONNAIRE AND PRESENT ALL IT QUESTIONS AND ANSWERS IN A GRAPHICAL FORM TO EXAMINE ALL THE FEEDBACK COLLECTED BY YOU

SUGGEST YOUR OWN FEEDBACK BY ANALYSING WHICH COMAPANY PRODUCT IS BETTER AND WHY ?

### SUBJECT: 074-LEGAL STUDIES

#### 1. Preparing the File:

- Create a well-organized file to answer the questions mentioned.
- Ensure that your responses are clear and concise.

#### 2. Writ Jurisdiction and Relevant Case:

- **Writ jurisdiction** refers to the authority of higher courts to issue writs (legal orders) to enforce fundamental rights or correct legal wrongs.
- A relevant case is **Kesavananda Bharati v. State of Kerala (1973)**. In this landmark judgment, the Supreme Court of India upheld the **basic structure doctrine**, which limits the power of Parliament to amend the Constitution.

### 3. **Explaining Cases on Specific Topics:**

- **Human Rights:** Research and discuss significant cases related to human rights, such as **Maneka Gandhi v. Union of India (1978)**, which expanded the scope of Article 21 (right to life and personal liberty).
- **Absolute Liability:** Explore cases like **M.C. Mehta v. Union of India (1987)**, where the Supreme Court held industries strictly liable for environmental damage.
- **Alternative Dispute Resolution (ADR):** Look into cases that highlight the effectiveness of ADR methods like mediation and arbitration.
- **Basic Structure:** Refer to **Indira Gandhi v. Raj Narain (1975)**, where the court emphasized the unamendable core of the Constitution.

### 4. **Movie Reviews:**

- **"Jolly LLB 2":** A legal comedy-drama, it portrays the struggles of a small-town lawyer. Discuss its themes, performances, and legal accuracy.
- **"OMG: Oh My God!":** A thought-provoking film questioning blind religious beliefs. Analyze its impact and relevance.

### 5. **MCQ Preparation:**

- Revise the completed chapter thoroughly.
- Create multiple-choice questions (MCQs) based on the material you've studied.

#### **SUBJECT: 083-COMPUTER SCIENCE**

Create a mini-library of Python functions covering mathematical operations, string manipulation, and custom functions based on real-world scenarios?

Error Exploration: "What are some common programming errors and exceptions, and how can they be handled using try-except blocks? Can you compile a list of errors, explain why they occur, and create a troubleshooting guide for debugging code?"

#### **SUBJECT: 301-ENGLISH CORE**

##### **Instructions:-**

- 1. Utilize your summer vacation constructively .Read good books /English newspaper daily. Obey your parents & help them. Be in touch with your subjects. Learn 5 new words with meaning daily.**
- 2. Summer assignment must be done in a separate assignment copy.**

**Dear Students,**

**You are required to go through the given Holiday Homework.**

##### **➤ Writing Article:**

In India, the urban poor live in sub-human conditions in slums. Write an article on 'Possible steps to Deal with Slums in India'. You are Kshitij /Isha, City Reporter of a newspaper. You can take help from the following visual.

(Word limit: 120-150)



➤ **Character review:**

Students are instructed to watch any one of the following movies and write about any one of the characters that impress them the most.

1. Mangal pandey: The Rising
2. The Legend of Bhagat Singh

➤ **Reading a Newspaper:**

Read any English daily newspaper during your summer vacation .Go through the articles in the newspaper and select any five of them which should be of five different dates. Cut them and paste them in a file and write a response.

➤ **Writing Notice:**

The NCC Air Wing of your school is organizing a visit to an Air Force Station in your area.as the senior Under Officer of the wing write a notice in not more than **50** words for all the cadets informing them about the visit.

In your notice you should include the following information:

- date, time and place of the visit
- purpose of the visit e.g. air show, flying, study aircraft, interaction with air Force Personnel (choose one only)

**SUBJECT: 302-HINDI CORE**

1- जल है तो कल है को स्मरण रखते हुए अपने आसपास के किन्हीं पांच लोगों से जल संरक्षण के संदर्भ में समझा कर हुई बातचीत का सचित्र वर्णन करें ।

2 - समाचार पत्र के माध्यम से देश- विदेश की प्रमुख सूचनाओं के सन्दर्भ में जानकारी प्राप्त करें , एवं उनका सार संक्षिप्त प्रतिदिन लिखकर फाइल तैयार करें।। प्रत्येक पृष्ठ पर समाचार पत्र का दिनांक अवश्य अंकित करें।

**SUBJECT: 805-FINANCIAL MARKETS MANAGEMENT**

- All of you Watch the Movie Scam 1992 and write your observation and summary of the film in 500 words .



**SUBJECT: 811-BANKING**

- Visit any one public sector bank and one private sector and write your observation about their services and write the difference in the customers dealing .

**SUBJECT: 843-ARTIFICIAL INTELLIGENCE**

1. Learn and create an app on MIT app inventor, you can go through the tutorials of MIT app inventor by click on below link.

<https://appinventor.mit.edu/explore/ai2/tutorials>

2. Search for the five career options in AI.  
You have to choose any one out of them and explain why you selected it.

3. Watch the below documentaries:

<https://www.youtube.com/watch?v=1cKE12LK4Eo&t=382s>