



Birla Balika Vidyapeeth , Pilani  
Summer Vacation Holiday Homework 2026  
Class XI

**Classes 11A & D**

English: Memories

The Projects have been explained in Detail in the respective Classes.

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**Financial markets management - Class XI D**

Do practice of NCFM modules. See and listen you tube related to primary secondary market. Trading view of a company. Search through Google the different types of securities and NSE, BSE and derivatives Read and learn chapter 1 as done in class.

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**Chemistry**

 1. ASSIGNMENT (EXTRA MARKS)

Complete the assignments of the following chapters:

\* Some Basic Concepts of Chemistry

\* Structure of Atom

Ensure:

- ✓ All questions are attempted
- ✓ Proper steps shown in numericals
- ✓ Answers are checked and corrected

 2. CLASS ASSIGNMENT (SPECIAL WORK)

Prepare chapter-wise written work in a clear explanation format.(Assignment provided in hard copy)

### 3. PRACTICAL FILE WORK

Complete the following experiments:

# Aim: To separate different components of a mixture using paper chromatography


#. To prepare 250 mL of M/40 oxalic acid solution accurately for laboratory use.

#. To detect the presence of alcohol functional group (-OH) in the given organic compound using suitable tests.

Follow format: Aim • Apparatus • Procedure • Observation • Result

. CHART PAPER ACTIVITY (COMPULSORY)

Prepare one chart on any one of the following topics:

 Best Topics (Choose One):

- \* Mole Concept (Flowchart + formulas)
  - \* Atomic Structure (Bohr model diagram)
  - \* Quantum Numbers (table format)
  - \* Electronic Configuration (aufbau principle)
  - \* Any best topic related to chemistry
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## BIOLOGY

### 1. Extramarks Assignments

- Complete **Extramarks assignments** of **all 3 chapters taught**
  - Ensure:
    - All questions attempted, Answers checked and reviewed, Doubts noted for discussion
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### 2. Practical File Updation

Update your **Biology Practical File** with:

- Structure of Microscope
- Inflorescence (types with diagrams)

**Instructions:**

- Neat, well-labelled diagrams, Proper format: Aim, Materials, Procedure, Observation, Prepare **viva questions**.

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### 3. Virtual Lab Practice

- Practice simulations on **OLabs Virtual Lab**
- Cover all practicals mentioned above

#### **Focus on:**

- Procedure, Observations, Results
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### 4. Blog Writing - World Environment Day 2026

 Submit before **25th May (on WhatsApp)**

#### **Topics (Choose any 1-2):**

- Urban Heat Islands: Why Cities Are Getting Hotter
- Role of Students in Achieving SDGs
- Soil Degradation & Food Security
- E-Waste Management
- Green Technology for Sustainability
- Loss of Pollinators
- Sustainable Agriculture
- Carbon Footprint Reduction
- Eco-Anxiety Among Youth
- Rewilding Nature

#### **Guidelines:**

- 100-150 words, Original work with proper title
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### 5. NCERT Work

- Write **all NCERT Questions & Answers** of chapters taught
- Maintain a **64-page Holiday Homework Notebook**

#### **Instructions:**

- Write Question followed by answer in neat handwriting & labelled diagrams.
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### 6. Investigatory Project (Art Integrated & Handwritten)

## **Mandatory Pages:**

1. Cover Page
2. Contents
3. Acknowledgement
4. Certificate
5. Aim
6. Objectives
7. Procedure
8. Observation
9. Result
10. Conclusion
11. Bibliography / References

### **Instructions:**

- Handwritten only, Pointwise content, Include diagrams/charts, news paper cuttings.
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## **7. Environmental Activity (Video-Based Tasks)**

### **A. Plant Care Activity**

- Record videos of:
    - Planting a sapling at home
    - Nurturing and watering it
  - Capture progress at **intervals of 7 days**
  - Add **voiceover explaining the process & learning**
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### **B. Animal & Bird Care**

- Set up **feeders/water bowls** for birds/animals
- Record:
  - Setup process
  - Animals/birds visiting
- Include **voiceover**

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### C. Seed Ball Activity

- Make **seed balls at home**
- Record full process:
  - Materials used
  - Preparation steps
- Explain method through **voiceover**

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### D. Herbal Dhoop Batti

- Prepare **herbal dhoop sticks/cones**
- Record:
  - Ingredients
  - Preparation method
- Explain benefits in **voiceover**

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### E. Best Out of Waste

- Create a useful product using waste materials
- Record:
  - Materials
  - Step-by-step making
- Add **voiceover explanation**

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### 8. Herbarium File

- Prepare a **Herbarium File** including:
  - Leaf modifications
  - Stem modifications
  - Root modifications

*(As per "Morphology of Flowering Plants" chapter)*

#### **Instructions:**

- Paste real/dried specimens (if possible)

- Label each specimen properly
  - Mention:
    - Name
    - Type of modification
    - Function
- 

### General Instructions

- All work is **compulsory**, Submit **on time after vacation**, Maintain **neatness & originality**, Avoid copy-paste.
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## Physics

- 1. Revise chapters: Unit & Dimensions, Motion in a straight line (1 and 2).
  - 2. Do NCERT question of chapter 1 and 2 and extra questions from Extramarks module for practice.
  - 3. Prepare one AI Enabled innovative project ideas (with social impact) with its prototype and its report. (Eg- AI-Powered Smart Farming Assistant, AI-Based Smart Traffic Management System, AI Health Diagnosis Chatbot, AI-Based Personalized Learning System, AI Women Safety App, AI-Based Garbage Segregation System, Smart Energy Consumption System, AI-Based Crowd Monitoring System)
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## Chemistry

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#. To detect the presence of alcohol functional group (-OH) in the given organic compound using suitable tests.

Follow format:


Aim • Apparatus • Procedure • Observation • Result

#### IMPORTANT INSTRUCTIONS

- ✓ Maintain neat and clean handwriting
- ✓ Draw well-labelled diagrams wherever required
- ✓ Use proper headings and margins
- ✓ Complete all experiments in practical file only
- ✓ Work should be original and systematic

#### 4. CHART PAPER ACTIVITY (COMPULSORY)

Prepare one chart on any one of the following topics:

 Best Topics (Choose One):

- \* Mole Concept (Flowchart + formulas)
- \* Atomic Structure (Bohr model diagram)
- \* Quantum Numbers (table format)
- \* Electronic Configuration (aufbau principle)
- \* Any best topic related to chemistry

Chart Instructions:

- ✓ Use coloured pens
- ✓ Draw neat diagrams
- ✓ Keep content short & clear
- ✓ Make it attractive and informative.

#### GENERAL INSTRUCTIONS

- ✓ Submit all work after holidays
  - ✓ Maintain neatness and originality
  - ✓ Avoid copying from others
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## Physical education

**This holiday homework is only for students of Class XI and XII who do have Physical Education as a subject**

**IN PRACTICAL FILE ONLY** Instructions: Complete in PE Practical File. Write Aim, Apparatus, Procedure, Observation, Conclusion for each. Paste photos. Submit after vacation.

### **SAI KHELO INDIA TEST**

Test 4 students. Do: BMI, 50m Run, 600m Run, Sit & Reach, Standing Broad Jump. Make observation table. Compare with SAI norms. Paste 2 photos.

### **GAME SKILL TEST**

Choose 1 Game: Basketball/Football/Volleyball/Badminton. Test 1 skill on 3 students. 10 chances each. Make score table. Draw labelled court diagram with dimensions. Paste 1 photo of measuring court.

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### **YOGA -**

Perform: Tadasana, Vrikshasana, Bhujangasana, Ardhamatsyendrasana, Padmasana, Anulom-Vilom, Bhramari. Write steps + benefits + contraindications for any 5. Paste 7 photos.

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- ❖ This holiday homework is only for students of Class XI and XII who do not have Physical Education as a subject.
  
  - Choose 1 Game: Basketball/Football/Volleyball/Badminton. Draw labelled court diagram with dimensions. Paste 1 photo of measuring court.
  - Complete the work in any file – stick file or spiral file.
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## Biotechnology

### Class: XI C

A. Write detailed answers of following topics / questions:

Chapter	S. No	Question / Topic
<b>Chapter I:</b> <b>Biotech: An</b> <b>Over view</b>  <b>&amp;</b> <b>Chapter II</b> <b>Cell: Unit</b> <b>of Life</b>	1	What is Biotechnology? Define according to
	2	Define the term fermentation with the description of lactic acid and alcoholic fermentation.
	3	Describe the industrial lactic acid fermented product formation by taking the example of curd making.
	4	What is plant and animal tissue culture? Explain recombinant DNA technology concept.
	5	What is the function of mesosome membrane folds in prokaryotes?
	6	Write two basic differences between plant and animal cells.
	7	What is the function of Fo-F1 particles in mitochondria?
	8	Why mitochondrion is termed as power house of cell? Explain.
	9	Why mitochondria and chloroplast place in semiautonomous category of cell organelles, explain with suitable structure.
	10	Draw the well labeled structure of plant cell.
	11	Give only classification of different types of plastids of plant cell.
	12	Differentiate between prokaryotic and eukaryotic cell.
	13	Write the applications of study and research in cell biology

B: Chart on any topic of Biotechnology and complete writing part of practical record.

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## Political Science

Prepare project file for Internal assesment

Instructions from Teacher:

- Project must be neat, creative, and well-organized.
  - Use diagrams, pictures, and charts.
  - Write headings in capital letters.
  - Maintain proper index and page order.
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## Mathematics

- Revise chapter 1, 2 and 5 from NCERT and 50 extra questions (25 short answer and 25 long answer) from any reference/NCERT Exemplar book in a separate copy **for core maths students**.
  - Revise chapters (Numbers, Indices and logarithms, Sets and Relations) from M. L. Agarwal book **for applied maths students**
  - Project: Statistical survey on water consumption Pattern in your community.
  - SDG Link – Clean water and sanitization
  - Maths Concepts – Statistics, mean, median, data collection.
  - Description: Conduct a survey of 20-30 households in your locality about their daily water uses.
  - Collect data on litres used per day, water saving methods, etc.
  - Represent the data using bar graphs and pie charts.
  - Calculate measures of central tendency.
  - Suggest strategies for reducing water consumption.
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## Accountancy

Use Extra marks and do the 25 questions from the following topics:

- Introduction to Accounting
  - Basic Accounting Terms
  - Rules of Debit and Credit
  - Journal Entries
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## Painting

Create:

1. **One A3 Size Artwork / Canvas Painting**
  - Recreate (Replica) any artwork by an internationally established artist.
2. **One A4 Size Artwork**
  - Recreate a different artwork by another famous artist.

You may choose **International or Indian artists**.  
Both artworks should be based on **different artists**.

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### Information to Write With Each Artwork

#### Artist Details

- Artist Name
- Nationality
- Art Style / Movement

#### Artwork Details

Name of the Artwork

Year of Creation

Medium Used

Technique Used

Style of Art

Short Description

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## English

1. English Core: Make TWO Project portfolios.
  - Visit CBSE Academic website on [cbse.nic.in](http://cbse.nic.in) and refer to the curriculum.
  - Select a topic either from book or any topic of your choice and do some research on it.
  - Choose an activity(mandatory) to show what you have concluded or researched. Example Interview, documentary, survey, Power point presentation, or 5-minute skit.

- Compile everything. Record the activity or attach proofs in terms of screenshots or photographs.
- In the last write a report in about 800 words about the project as to how you did the entire task.
- All this is mentioned in curriculum (syllabus) under the heading of Internal Assessment and arrange the documents in the order mentioned in the syllabus.

2. General Studies: Make TWO Project portfolios.

- Visit CBSE Academic website on cbse.nic.in and refer to the curriculum.
- Select a topic either from book or any related topic of your choice and do some research on it.
- Choose an activity to show what you have concluded or researched. Example Interview, documentary, survey, Power point presentation, or 5-minute skit.
- Compile everything. Record the activity or attach proofs in terms of screenshots or photographs.
- In the last write a report in about 800 words about the project as to how you did the entire task.

All this is mentioned in curriculum (syllabus) under the heading of Internal Assessment and arrange the documents in the order mentioned in the syllabus.

3. Do the question and answers of all the chapters and poems completed so far in the BBC compacta and also complete the extra questions dictated in the class for each chapter.
4. Visit Extra marks and complete the assignments assigned to you date-wise.
5. Prepare your lessons for the upcoming exams.

## **Economics**

Do survey of the market Product , collect Primary data or secondary data and do analysis and present a project report Of 25 pages .

Do assessments of chapters on Extramarks

## **Financial markets management - XI D**

Do practice of NCFM modules. See and listen you tube related to primary secondary market. Trading view of a company. Search through Google the different types of securities and NSE, BSE and derivatives Read and learn chapter 1 as done in class.

## INFORMATICS PRACTICES

The students of Grade XI (Informatics Practices) are assigned a creative holiday project to explore the frontier of "Vibe Coding" using Google AI Studio/Replit. Instead of traditional syntax-heavy programming, students will act as prompt engineers to build a functional web application by describing their vision to the Gemini/AI model. The process involves identifying a real-world challenge, drafting a "Vibe Brief" that outlines the app's aesthetic and core logic, and iteratively refining the generated code through natural language feedback. Final submissions must include the functional app files, a **"Prompt Log" detailing the conversation** with the AI, and a **project report** highlighting the evolution of the application. Projects will be assessed on the effectiveness of the **prompting strategy**, the **app's functionality**, **UI/UX design**, and the clarity of the **documentation**.

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## MULTIMEDIA

As a part of your portfolio, create a word document for 15 different types of shots. It should include:

1. Small description of the shot 2. 1 image of the shot clicked by you. 3. 1 image of the shot from your favourite series/film.

You are supposed to bring this printed in portrait form on A4 sheet

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## Artificial Intelligence

Choose any 3 future jobs which you wish to become that use AI (from the list below or your own research) and answer the following questions for each:

What is the job title?

What does a person in this job do?

Which domain of AI is used?

How does it help people or the world? (SDG Goal covered)

Examples of Future AI Jobs:

AI Data Analyst, Robotics Engineer, AI Artist, Self-driving Car Engineer, AI Teacher Assistant, Virtual Reality Designer, Chatbot Developer, Smart Healthcare Advisor

## **Computer Science**

Do book back questions of python fundamentals and data handling

Understand real life applications of logic used in programming

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## **National Cadet Corps**

1. How does the National Cadet Corps help a cadet build character and groom personality?
  2. Explain the importance of discipline and leadership in the life of an NCC cadet.
  3. Write a short note on the role of NCC in promoting patriotism and national unity among students.
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## **Economics**

Prepare a 25-pages project report according to the CBSE curriculum guidelines. The project should include all essential sections such as the cover page, certificate, acknowledgement, index, detailed content, diagrams/charts, conclusion, bibliography, and student View.

Complete all Assignments and prepare all chapters done till now for class Assessments in July.

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## **Medical Diagnostics (Code 828)**

Holiday Homework (2026-27)

Subjective Questions

- 1) Define the term diagnosis with its importance.
- 2) What is the difference between diagnosis and prognosis?
- 3) Explain the general steps of the diagnostic process.
- 4) Explain the diagnostics process of COVID-19 with suitable diagram.
- 5) Explain the term Phlebotomy with its importance.
- 6) Define the term antibody and antigen.
- 7) Which diagnosis test is used for the screening of the following infection:  
(a) Coronavirus (b) HIV
- 8) What is Excretion? Explain the significance of excretion.

9) What is specific gravity? Explain the measurement of urine-specific gravity using a urinometer.

10) Explain the diagnostic test used for the Ketone bodies in urine sample,  
Project and PPT Work

1. Student should prepare a handwritten art integrated project of Medical Diagnostics related topics (Pages of project 20 to 25).

2. Prepare PPT on the following topics:

o Prevention of infectious diseases to create awareness.

Diagnosis of lung diseases

o Career scopes in Medical/ Medical Diagnostics

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## CAREER AND SOCIO-EMOTIONAL HOMEWORK

CLASS XI -

**Career Research Paper:** select a career you are interested in and write a detailed research paper. You should cover aspects like educational requirements, skills needed, job outlook, and potential career paths.

- Objective: Map out the academic and career journey in a chosen field.
- Instructions: Select one career you're seriously considering. Create a comprehensive report covering:
  - Career overview and responsibilities
  - Required qualifications (UG/PG courses, entrance exams)
  - Top colleges (India & abroad)
  - Career prospects and salary range
  - Required skills and certifications
  - Future trends and emerging opportunities

CLASS XI

Assignment - What If I Choose Wrong?

Facing the Fear of Career Decisions

Almost every Class XI student carries a quiet anxiety - What if I pick the wrong path? What if I disappoint someone? What if I am not good enough?

This assignment asks you to face those fears honestly instead of pushing them aside.

Part 1 - Name Your Fears

Write honestly about these questions:

- What career or field genuinely excites you - even if you haven't told anyone?
- What is stopping you from fully owning that choice? List every fear, big or small.

Examples:

- My parents want something different
- What if there is no future in this ?
- My family and friends think its not a real career .

· I don't think I am capable of doing it / clearing it .

· Which fear is loudest? Where do you think it comes from – your own doubt, family pressure, social comparison, past failure?

Part 2 – Question Your Fear

Pretend your biggest career fear is a person sitting across from you.

Frame where you question it: Frame at least 10 questions to ask it – (the fear)

- Why do you keep showing up?
- Are you based on facts or assumptions?
- are you actually trying to protect me from something ? what is it
- What would happen if I ignored you?

Let the fear answer back honestly too. It is important as it about it understanding it.

Part 3 – Reality Check

Pick your loudest fear and try and find more details about it .

- Is it based on real evidence or assumption?
- Find one real person who succeeded in your chosen field despite similar doubts
- Write 3 concrete things you could do to reduce that fear over the next 6 months

Submit: Three-part written response – honest, personal, unfiltered.

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## Psychology

- 1. Prepare a word search from chapter 1, comprising 10 one-word answers, as discussed.**
- 2. Prepare a crossword from chapter 2, comprising 10 one-word answers, as discussed.**
- 3. Watch and review a movie on a psychological theme. Prepare the review as discussed.**
- 4. Create the flip book as shown in class.**
- 5. Learn chapters 1 and 2.**