

BIRLA SCHOOL, PILANI

Winter Vacation Home assignment session 2025-26 for class 11

ENGLISH

Student Name: _____

Class & Section: _____

Roll No.: _____

PART A: WORKSHEET

General Instructions:

1. Attempt **all questions**.
2. Follow the given **word limits** strictly.
3. Use correct **format, content, and language**.
4. Neat presentation and originality are expected.

Q1. You are the Head Boy/Head Girl of your school. Write a speech to be delivered on **Republic Day** on the topic:

“Youth Power: Shaping the Future of India.”

Q2. Design a poster on **any ONE** of the following topics:

(Use a catchy slogan, suitable visuals (to be drawn), and relevant details)

- a) **Save Water, Secure the Future**
- b) **Say No to Drugs**
- c) **Mental Health Awareness**

Q3. Write an article for your school magazine on **any ONE** of the following topics:

- a) **Importance of Time Management for Students**
- b) **Impact of social media on Teenagers**
- c) **Value of Sports and Physical Fitness in Education**

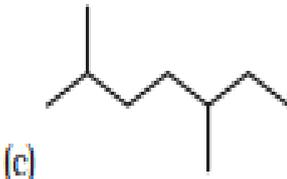
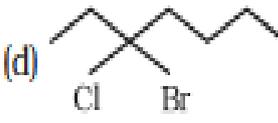
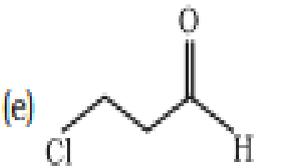
Q4. Draft a classified advertisement for **any ONE** of the following:

- a) You want to sell your **second-hand laptop** in good condition.
- b) A **tuition teacher** is required for Class XI (Commerce/Science).

(Use proper format, box, abbreviations, and contact details.)

PART B:

Complete the PROJECT WORK (Internal Assessment) as discussed in class.

<p>PHYSICS</p>	<ol style="list-style-type: none"> 1. Prepared a chart on Pascal's law/ Bernoulli's Principle Applications with neat diagram. 2. Working project model related with the syllabus of theory. 3. Chapter: i) Motion in one dimension <ol style="list-style-type: none"> ii) Motion in a plane iii) Work Energy Power iv) Laws of motion <p>Each chapter 10 numerical each.</p>
<p>CHEMISTRY</p>	<p>Complete following questions in your class notebook of Chemistry</p> <ol style="list-style-type: none"> 1. <p>Balance the following equations in basic medium by ion-electron method and oxidation number methods and identify the oxidising agent and the reducing agent.</p> <p>(a) $P_4(s) + OH^-(aq) \rightarrow PH_3(g) + HPO_2^-(aq)$</p> <p>(b) $N_2H_4(l) + ClO_3^-(aq) \rightarrow NO(g) + Cl^-(g)$</p> <p>(c) $Cl_2O_7(g) + H_2O_2(aq) \rightarrow ClO_2^-(aq) + O_2(g) + H^+$</p> 2. <p>Assign oxidation number to the underlined elements in each of the following species:</p> <p>(a) $NaH_2\underline{P}O_4$ (b) $NaH\underline{S}O_4$ (c) $H_4\underline{P}_2O_7$ (d) $K_2\underline{Mn}O_4$</p> <p>(e) $Ca\underline{Q}_2$ (f) $Na\underline{B}H_4$ (g) $H_2\underline{S}_2O_7$ (h) $KAl(\underline{S}O_4)_2 \cdot 12 H_2O$</p> 3. <p>Give the IUPAC names of the following compounds :</p> <p>(a) </p> <p>(b) </p> <p>(c) </p> <p>(d) </p> <p>(e) </p> <p>(f) Cl_2CHCH_2OH</p>

	<p>4.</p> <p>Draw formulas for the first five members of each homologous series beginning with the following compounds. (a) H-COOH (b) CH_3COCH_3 (c) H-CH=CH_2</p> <p>5.</p> <p>Give condensed and bond line structural formulas and identify the functional group(s) present, if any, for :</p> <p>(a) 2,2,4-Trimethylpentane (b) 2-Hydroxy-1,2,3-propanetricarboxylic acid (c) Hexanedial</p> <p>6. Learn Elements from atomic number 1 to 54 from Modern periodic table.</p>
<p>MATHEMATICS</p>	<p>Solved examples and 20 extra questions from the following chapters.</p> <ol style="list-style-type: none"> 1. Straight lines 2. Limits and derivatives 3. Sequence and series 4. Probability
<p>BIOLOGY</p>	<p>Revise NCERT chapters: Plant Kingdom, Cell – The Unit of Life, and Morphology of Flowering Plants.</p> <p>Prepare short notes, important definitions, diagrams and flow charts from each chapter.</p> <p>Revise all other lessons completed in Term-1 thoroughly.</p> <p>Complete it and bring the homework in your biology notebook after vacation.</p>
<p>BIOTECHNOLOGY</p>	<p>Collect the latest information on biotechnology & prepare a chart on any topic of biology or biotechnology.</p>
<p>CS</p>	<p>LISTS</p> <ol style="list-style-type: none"> 1. Create a list of 5 winter fruits. Display the list and its length. 2. Input 5 numbers in a list. Find and display the largest number. 3. Create a list of student marks. Count how many students scored more than 75. 4. Create a list of names. Display the names in reverse order. 5. Create a list of numbers. Remove all even numbers from the list.

TUPLES

Create a tuple of 5 integers.

Display the first and last element.

1. Create a tuple of student names.
Check whether a given name exists in the tuple.
2. Create a tuple of numbers.
Find the sum of all elements.
3. Convert a tuple into a list, add one element,
then convert it back into a tuple.
4. Create a tuple of repeated values.
Count how many times a value appears.

STRINGS

1. Input a string.
Count the number of vowels.
2. Input a string.
Convert it into uppercase.
3. Input a string.
Check whether it is a palindrome.
4. Input a sentence.
Count the number of words.
5. Input a string.
Replace all spaces with underscores (_).

Practice:

- Write a program to input a list of names and display only names starting with a vowel.
- Write a program to input a string and display each character on a new line.

I.P.

1. Write a MySQL command to create a table **STUDENT** with the following fields:

Field Name	Data Type	Constraint
RollNo	INT	Primary Key
Name	VARCHAR(30)	NOT NULL
Class	VARCHAR(10)	—
Marks	INT	—

	<p>2. What is the purpose of the DROP command in MySQL?</p> <p>3. Explain the following integrity constraints with examples:</p> <ul style="list-style-type: none"> • NOT NULL • UNIQUE • PRIMARY KEY • DEFAULT <p>4. How do keys and integrity constraints help in maintaining data accuracy and reliability in a real-life database system such as a school or bank database?</p> <p>5. Find the error related to the PRIMARY KEY and correct the code.</p> <pre>CREATE TABLE Student (RollNo INT, Name VARCHAR(25), PRIMARY KEY);</pre> <p>6. The following command is written to remove a table, but it is incorrect. Find the error and write the correct command.</p> <pre>DELETE TABLE Employee;</pre> <p>7. Write the MySQL commands to:</p> <ul style="list-style-type: none"> • Display the structure of a table named STUDENT • Show all databases present in MySQL • Display all tables of the currently selected database
MUSIC	Prepare a detailed music project on any five Hindustani Classical singers. The project should include a brief introduction to Hindustani Classical Music, the life history of each singer, their musical contributions, style of singing, and their importance in Indian classical music.
AI	Learn new AI tools and create a model then share the model if possible. Otherwise at least share 2 screenshots with timestamp. Email to bhupendra030386@birlaschoolpilani.edu.in with subject “ Class 11 AI Assignment ”
ACCOUNTANCY	Make a project on trading firm consist of journal ledger Trial balance and submit it in a file.
BUSINESS STUDIES	Make a project on reserve bank of India for functioning and submit it in file.
ECONOMICS	Make a project on census of India 2011 and submit it in file.

ENTERPRENURESHIP	Prepare a project on market research of any product it should include marketing mix and submit it in a file.
PHYSICAL EDUCATION	Write five asanas with diagrams and benefits in your practical file.