



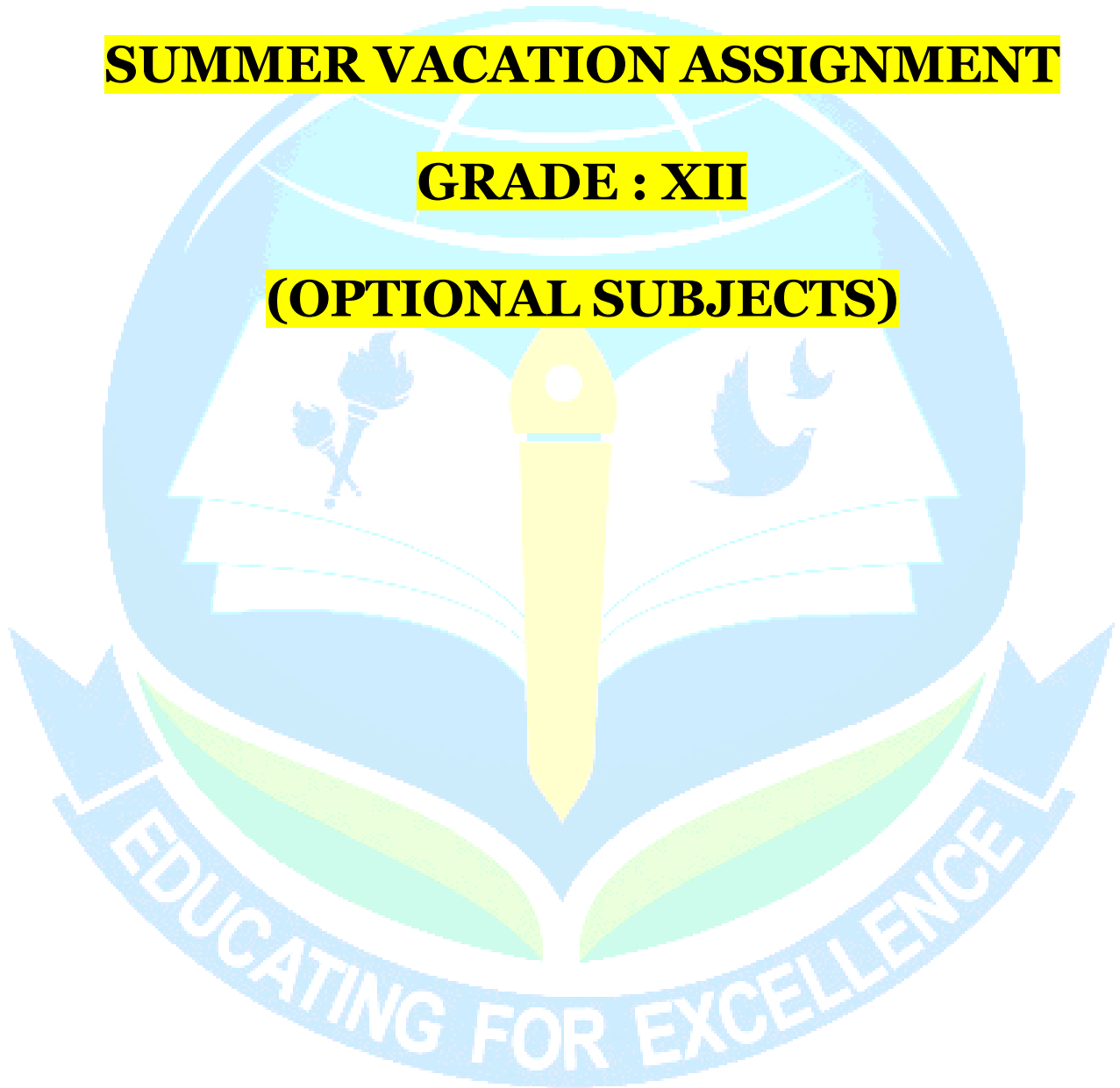
**ACADEMIC WORLD SCHOOL™**  
**BEMETARA**

**SESSION: 2026-27**

**SUMMER VACATION ASSIGNMENT**

**GRADE : XII**

**(OPTIONAL SUBJECTS)**



**Name** \_\_\_\_\_ **Class** \_\_\_\_\_ **Section** \_\_\_\_\_



# ACADEMIC WORLD SCHOOL™ BEMETARA

**SESSION: 2026-27**

## **SUMMER VACATION ASSIGNMENT**

**GRADE: XII**

### **General Instructions:**

1. Write in a clear and legible handwriting.
2. Complete all the homework in a separate subject Summer Vacation Homework Notebook.
3. **DO NOT COPY AND PASTE FROM THE INTERNET.** (Assignment will be rejected)
4. In case of reference from the internet, you may:
  - A. Read the content from the internet, if you wish and paraphrase (Rewrite in your own words)
  - B. Mention the source of your information by providing the link from the internet for the verification by the teachers.
5. Marks awarded will be counted in the final scores at the end of the session.
6. The Summer Vacation HW will be submitted immediately upon arrival to school after Summer Vacation.
7. For any assignment related query do post your question on E-Mail Id of respective subject teacher. List of Subject Teacher's E-Mail ID attached.

### **Note for the Parents:**

**Parents are requested to guide his/her wards to complete their assignments honestly and submit by the due date.**

**SUBJECT: APPLIED MATH (241)**  
**GRADE : XII**

**1. Project Work:**

Activity: Milk and Water Adulteration Project

**Concept:** Alligation to detect purity

**Objective:**

Study how milk is diluted with water and use alligation to calculate the ratio of pure milk to water.

**What to be done:**

- Assume different costs of pure milk and adulterated milk
- Use alligation to find the mixing ratio
- Compare market prices vs calculated fair prices

\*\*\*\*\*

EDUCATING FOR EXCELLENCE

# **SUBJECT: COMPUTER SCIENCE (083)**

## **GRADE : XII**

### **Practical File Completion**

Students must complete their **CBSE Practical Files** during the summer vacation.

#### **Instructions:**

- Complete all programs as per CBSE syllabus:
  - Python Programs
  - File Handling
  - Data Structures (List, Tuple, Dictionary)
  - SQL Queries (MySQL)
- Ensure:
  - Proper formatting
  - Output screenshots (if required)
  - Neat and well-organized presentation

#### **Important:**

- Files must be **original work**
- Submission will be done **after school reopens**.
- This file will be used in **CBSE Practical Examination**

#### **General Instructions**

- Do create practical file digitally. It should be handwritten.
- Maintain **creativity and originality**.
- Holiday homework will be **evaluated and graded**.
- Students must complete the work during the **summer vacation only**.

\*\*\*\*\*

**CLASS: XII**  
**Subject: HINDI CORE (302)**



- निर्देश-**\* छात्र ग्रीष्मकालीन अवकाश गृहकार्य को A4 साइज शीट में लिखकर फोल्डर में संग्रहित करेंगे।
- \* परियोजना कार्य हेतु A4 साइज फाइल का प्रयोग करेंगे।
  - \* कार्य करते समय सुंदर लेखनी एवं रचनात्मकता का ध्यान रखेंगे।



**परियोजना कार्य**

1. निम्नलिखित विषयों/स्वरुचि पर आधारित किसी एक विषय पर सचित्र परियोजना कार्य तैयार कीजिए। परियोजना कार्य का विस्तार 10-20 पृष्ठों में होना चाहिए।
  - \* हिंदी के कवि/कवयित्री (तुलसीदास, प्रेमचंद, महदेवी वर्मा), रचनात्मक लेखन, फीचर लेखन आदि।
  - \* परियोजना कार्य करते समय निम्नलिखित क्रम को अपनाएँ -
1. प्रमाण – पत्र 2. आभार ज्ञापन 3. विषय-सूची 4. उद्देश्य 5. समस्या का बयान 6. परिकल्पना 7. प्रक्रिया (साक्ष्य संग्रह, साक्ष्य का विश्लेषण) 8. प्रस्तुतीकरण (विषय का विस्तार) 9. अध्ययन का परिणाम 10. अध्ययन की सीमाएँ 11. स्रोत 12. अध्यापक टिप्पणी
- 2 प्रथम आवधिक परीक्षा (P.T-1) पाठ्यक्रम याद करना है, और अभ्यास पुस्तिका में लिखना है।

# **SUBJECT: INFORMATICS PRACTICES (065)**

## **GRADE : XII**

### **Practical File Completion**

Students must complete their **CBSE Practical Files** during the summer vacation.

#### **Instructions:**

- Complete all programs as per CBSE syllabus:
  - Python Programs
  - File Handling
  - Data Structures (List, Tuple, Dictionary)
  - SQL Queries (MySQL)
- Ensure:
  - Proper formatting
  - Output screenshots (if required)
  - Neat and well-organized presentation

#### **Important:**

- Files must be **original work**
- Submission will be done **after school reopens.**
- This file will be used in **CBSE Practical Examination**

### **General Instructions**

- Do not create practical file digitally. It should be handwritten.
- Maintain **creativity and originality.**
- Holiday homework will be **evaluated and graded.**
- Students must complete the work during the **summer vacation only.**

\*\*\*\*\*

# **SUBJECT: LEGAL STUDIES (074)**

## **GRADE : XII**

### **INTRODUCTION**

The student is required to do a project on ‘Understanding Case Laws’

#### **OBJECTIVES :**

The project work aims to enable students to:

- Identify a legal problem and provide its remedy
- Select relevant legal sources and conduct research
- Analyze and distinguish between types of cases
- Apply case laws and relevant statutory laws

**METHODOLOGY :** The student is required to select any **3 decided cases** related to the curriculum where one must be civil in nature, one criminal and one constitutional in character.

The research on the cases must include the following points:

- Name of the case
- Parties to the case
- Citation to the case
- Bench
- Nature of the case (Civil, Criminal or Constitutional)
- Facts of the case and issues involved
- Decision of the case including Ratio Decidendi and Obiter Dicta

\*\*\*\*\*

**SUBJECT: HINDUSTANI MUSIC (036)**  
**GRADE : XII**

**Summer Assignment Questions –**

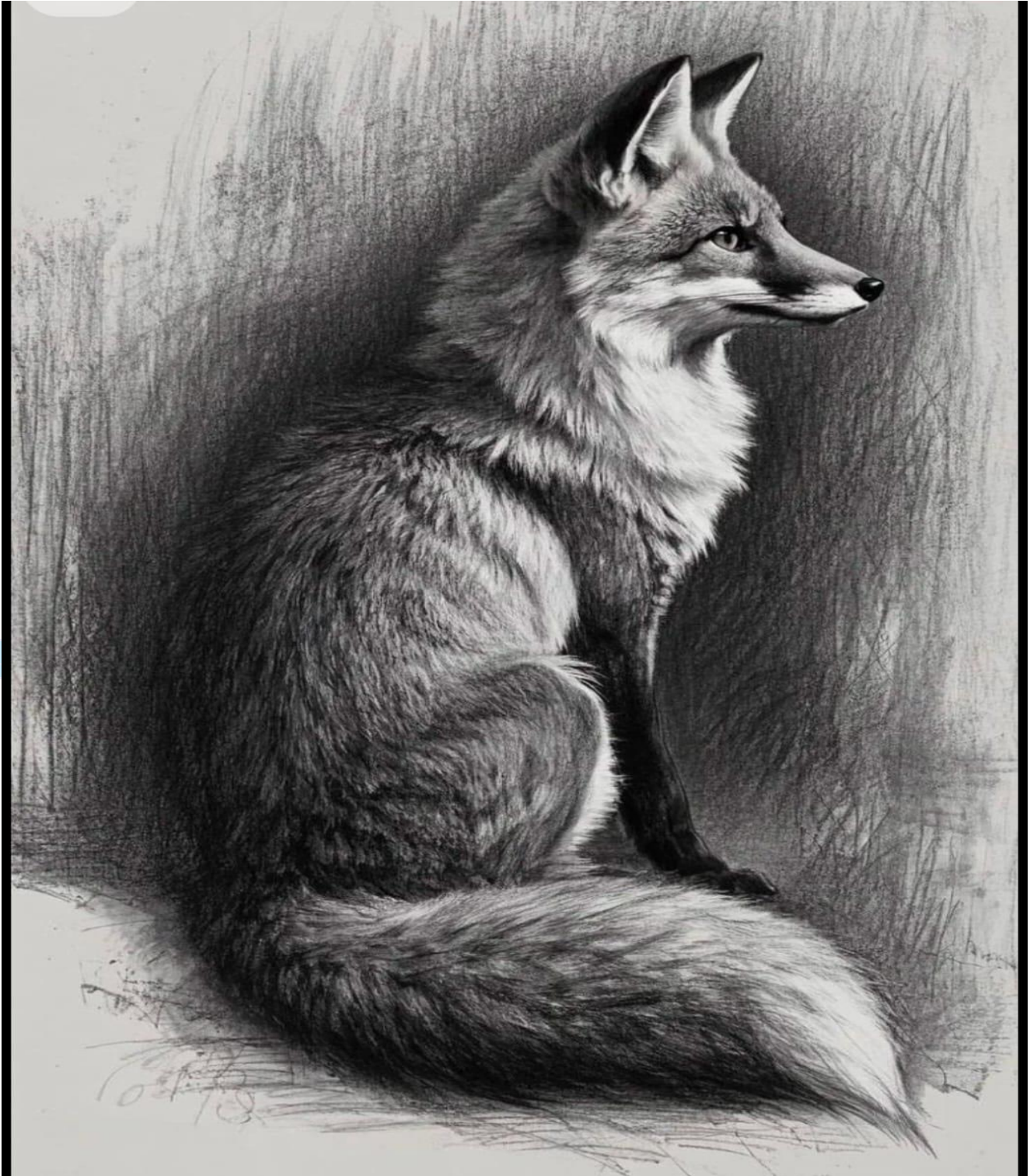
- 1) Draw a neat diagram of the **Tabla** and label all its parts clearly.
- 2) Write the following compositions in **Teentala**:

- One **Uthan**
- **Theka**, Dugun, Tingun and Chaugun Laya
- One **Kayda** with 3 Paltas and a Tihai
- One **Tukra**
- One **Chakradhar Paran**
- One **Gat**
- One **Rela**

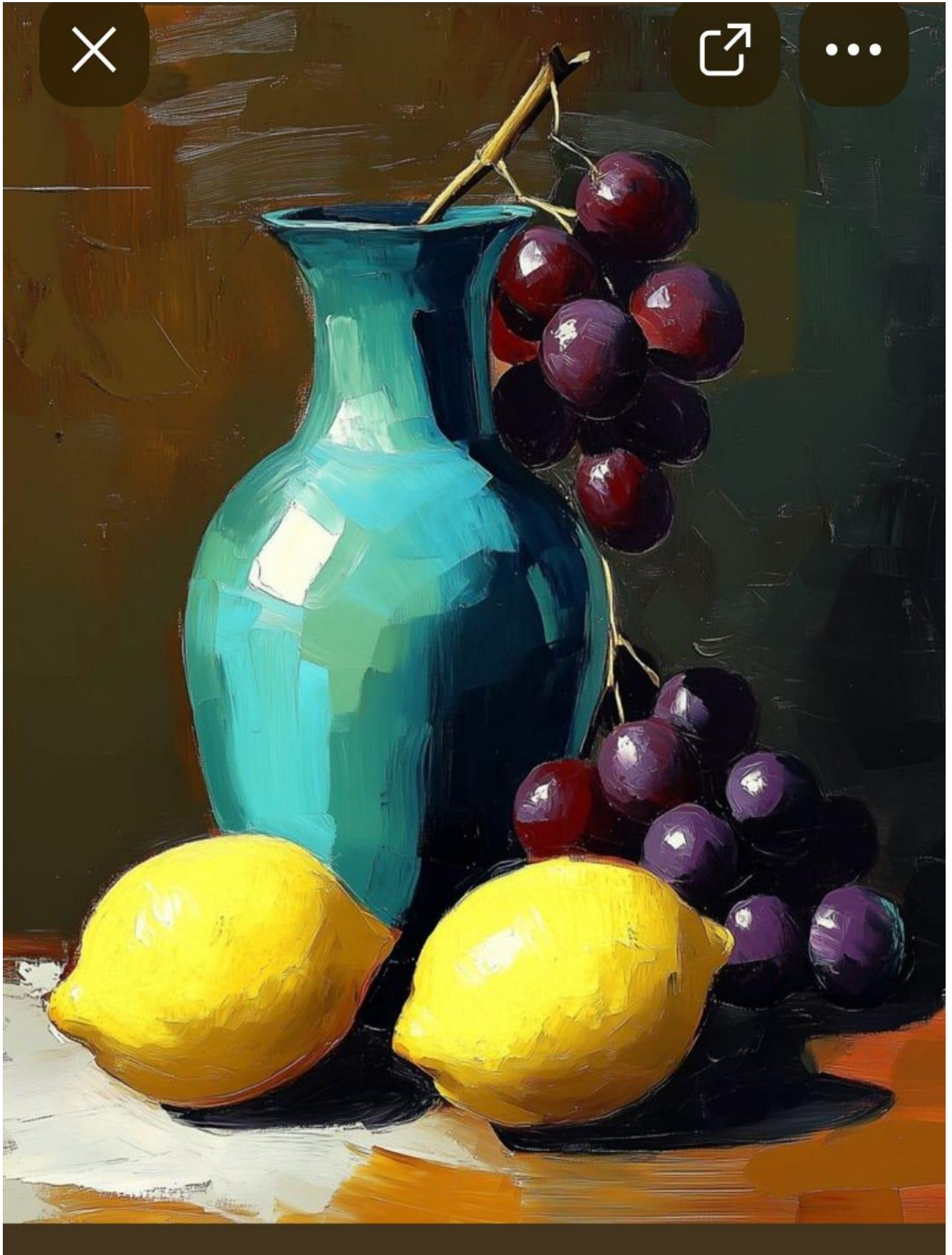
\*\*\*\*\*

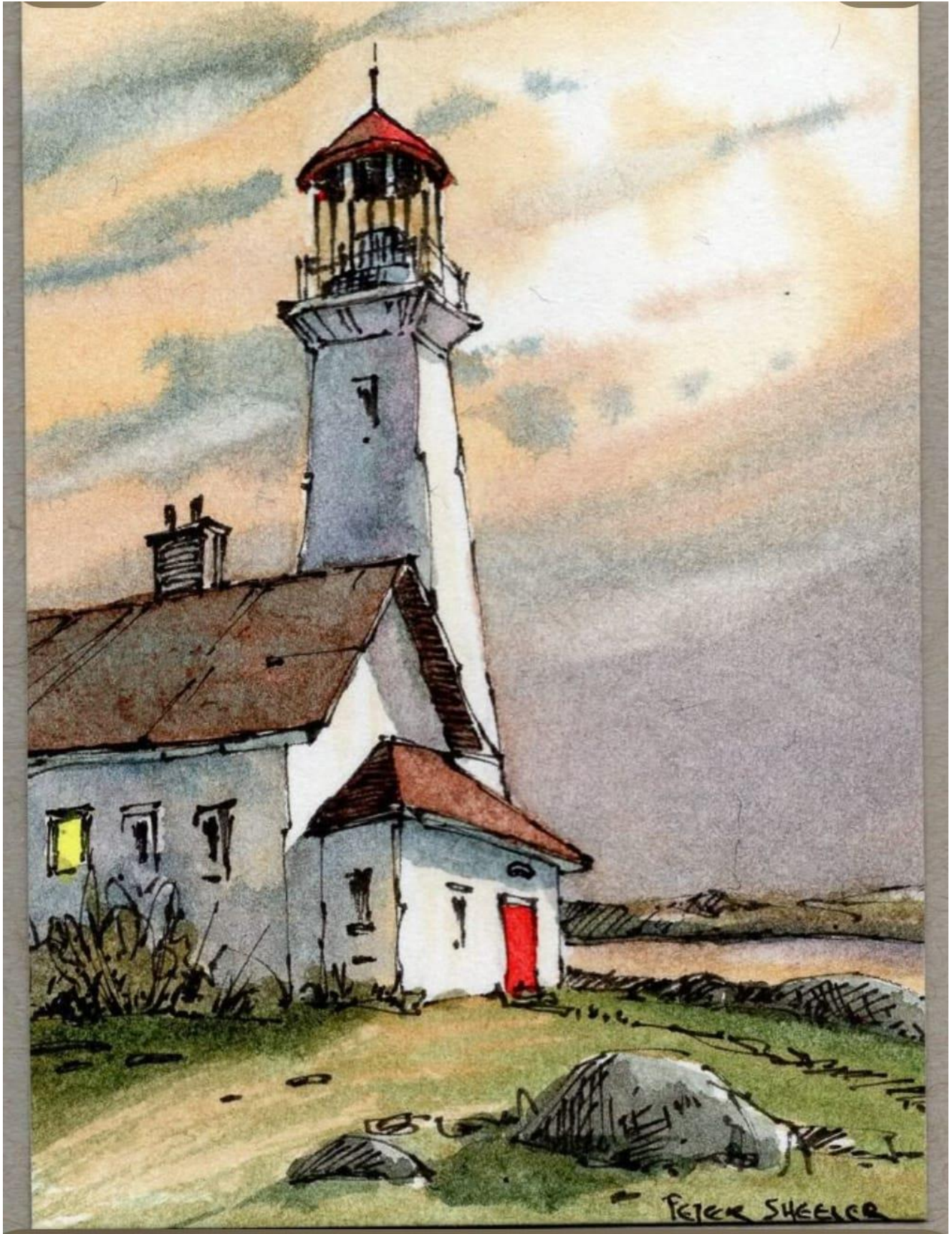
EDUCATING FOR EXCELLENCE

**SUBJECT: PAINTING (049)**  
**GRADE : XII**











\*\*\*\*\*

# **SUBJECT: PHYSICAL EDUCATION (048)**

## **GRADE-XII**

**Write following topics in Physical Education Lab Manual Register in Approx. 30 pages including front page, certificate, Index and Bibliography:**

### **Topics include:**

- Practical-1: Fitness tests administration. (SAI Khelo India Test). Any 5 fitness tests
- Practical-2: Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.(Approx 8 asanas)
- Practical-3: Anyone one IOA recognized Sport/Game of choice. Labelled diagram of Field & Equipment. Also mention its Rules, Terminologies & Skills. (Any one game from Volleyball/ Badminton/Football/ Basketball)

\*\*\*\*\*

EDUCATING FOR EXCELLENCE

# **SUBJECT: YOGA (841)**

## **Grade-XII**

**Make a practical file (Spiral or Report file) of approx. 25 pages including Front page, certificate page, Index, Bibliography and make a Project register of approx. 25 pages from the topics given below:**

**You can choose any topics related to yoga only and make a practical register of approx. 25 pages-**

- Shatkarma meaning, purpose and their significance in yoga sadhana.
- Yogasana - meaning, principal and their health benefit.
- Introduction to Pranayama and Dhyana and their health benefits.
- Identify career opportunities in Yoga.
- Concepts of Aahara (Diet) according yogic text.
- Significance of Hath Yoga practices in Health promotion.
- Concept of mental health well-being according to patanjali Yoga.

**You can choose any topics related to yoga only and make a project file of approx. 25 pages-**

- Yogic practice of Patanjali yoga: Bahiranga and Antranga Yoga.
- Concept of healthy living style in Bhagavad Gita.
- Importance of subjective experience in daily yoga practice.
- Yogic prevention of common diseases.
- Yoga and personality development.

\*\*\*\*\*

EDUCATING FOR EXCELLENCE

# SUBJECT: MARKETING (812)

## Grade-XII

### Topic: Develop Your Own Product

**Objective-** This project aims to help students understand product planning, branding, packaging, and marketing strategies by creating and analyzing their own product.

#### Instructions:

Create a unique product (real or imaginary).

Present your work in a file/project folder.

Use diagrams, drawings, pictures, and creativity.

Maintain neatness and proper headings.

Word limit: 20-25 pages

#### PROJECT STRUCTURE

##### 1. Introduction

What is a product?

Difference between:

Tangible Product (physical)

Intangible Product (service-based)

##### 2. Product Details

Name of the Product

Type: Good / Service

Category: (e.g., convenience, shopping, specialty)

##### 3. Brand Development

Brand Name

Brand Tagline (Slogan)

Brand Meaning / Idea

##### 4. Logo Design

Draw or paste your product logo

Explain:

Colors used

Symbol meaning

##### 5. Components of Product

Explain the three levels:

Core Product (basic need satisfied)

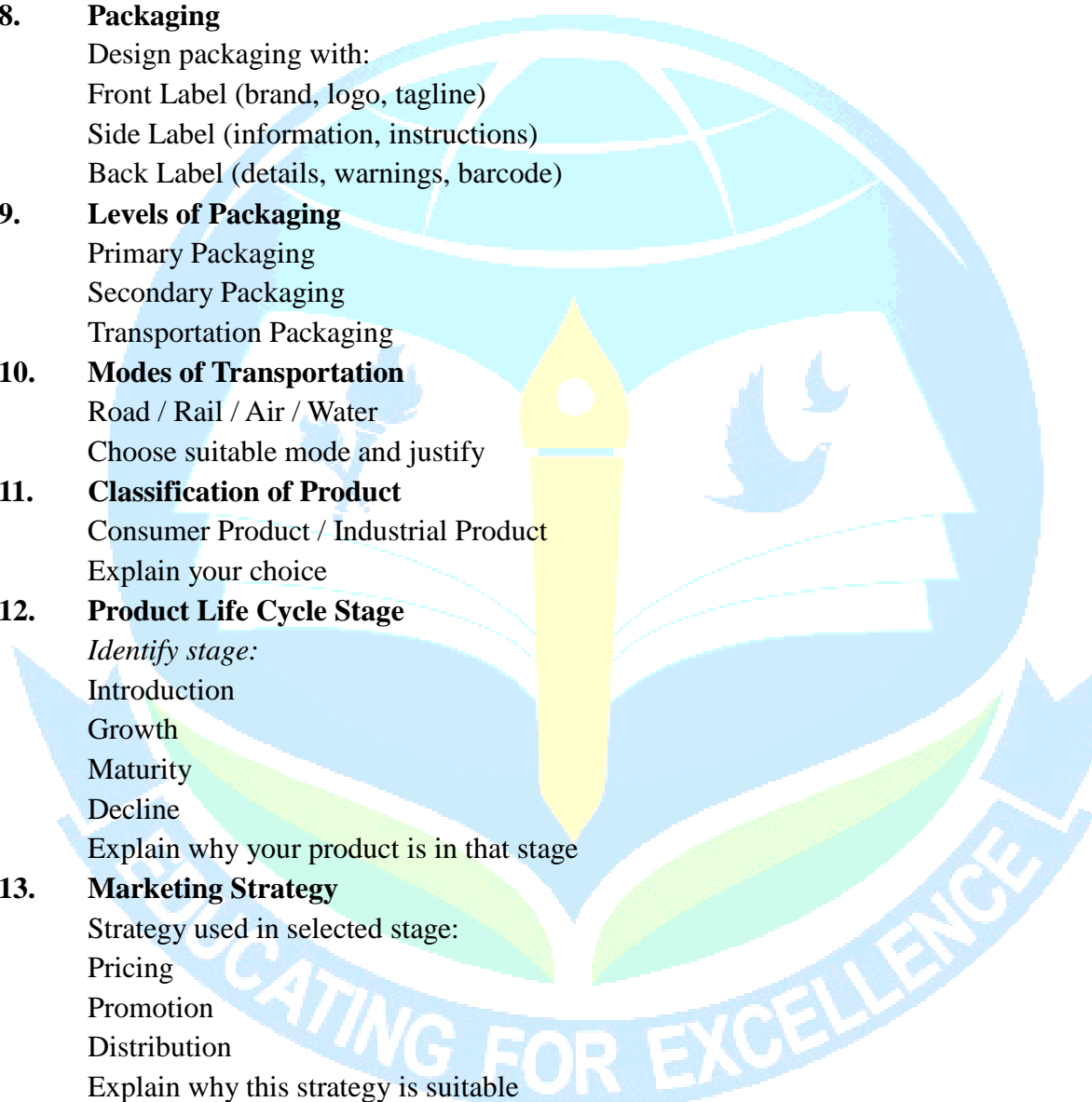
Actual Product (features, design, quality)

Augmented Product (extra benefits like warranty, service)

##### 6. Product Features

List key features

Highlight Unique Characteristics (USP)

- 
7. **Labeling**  
Design a label for your product  
Include:  
Brand name  
Ingredients / details  
Instructions  
Price
8. **Packaging**  
Design packaging with:  
Front Label (brand, logo, tagline)  
Side Label (information, instructions)  
Back Label (details, warnings, barcode)
9. **Levels of Packaging**  
Primary Packaging  
Secondary Packaging  
Transportation Packaging
10. **Modes of Transportation**  
Road / Rail / Air / Water  
Choose suitable mode and justify
11. **Classification of Product**  
Consumer Product / Industrial Product  
Explain your choice
12. **Product Life Cycle Stage**  
*Identify stage:*  
Introduction  
Growth  
Maturity  
Decline  
Explain why your product is in that stage
13. **Marketing Strategy**  
Strategy used in selected stage:  
Pricing  
Promotion  
Distribution  
Explain why this strategy is suitable
14. **Importance of Labeling**  
Branding  
Legal compliance  
Consumer awareness  
Safety information
15. 🏠 Why is price the most crucial element of the marketing mix? (Write in 100–150 words)

\*\*\*\*\*

# **SUBJECT: ENTREPRENEURSHIP (066)**

## **Grade-XII**

### **TOPIC: BUSINESS PLAN PROJECT**

#### **Objective:**

- To develop entrepreneurial skills among students.
- To understand real-life business planning.
- To enhance creativity, decision-making, and analytical ability.

#### **Instructions:**

This is an individual project

The project must be handwritten in a neat file

Use pictures, charts, diagrams, and creativity

Word limit: 15–20 pages

Submit after vacation along with viva preparation

#### **PROJECT TASK:**

Each student has to prepare a complete business plan for a new startup idea:

☞ You can choose any idea like:

- Homemade food service
- Clothing brand
- Tuition/coaching center
- Beauty/parlour services
- Online business (Instagram store, etc.)
- Eco-friendly products

#### **FORMAT OF THE BUSINESS PLAN**

##### **1. Cover Page**

Project Title

Name of Student

Class & Section

School Name

##### **2. Index**

##### **3. Executive Summary**

Brief idea of the business

Objectives of the business

Why this business is chosen

##### **4. Business Description**

Name of the business, Nature (Manufacturing/Trading/Service), Vision & Mission,

Objectives

- 5. Product / Service Details**
  - Description of product/service
  - Unique features
  - Benefits to customers
- 6. Market Analysis**
  - Target customers (age, income, area, etc.)
  - Demand for the product
  - Competitors (at least 2)
  - Customer needs
- 7. Marketing Plan (4P's)**
  - Product, Price, Place, Promotion
- 8. Operational Plan**
  - Location of business
  - Raw materials required
  - Machinery/tools needed
  - Process of production/service
- 9. Human Resource Plan**
  - Number of employees
  - Skills required
  - Duties and responsibilities
- 10. Financial Plan**
  - Estimated cost of starting business
  - Sources of finance
  - Expected profit
  - Break-even point (basic idea)
- 11. Risk Analysis**
  - Possible risks
  - Ways to overcome them
- 12. Conclusion**
  - Feasibility of the business
  - Future scope
- 13. Bibliography**
  - Books, websites, or sources used

**MARKING SCHEME (10 Marks)**

Creativity & Presentation – 5 Marks

Viva Voce – 5 Marks

\*\*\*\*\*

Sl.No.	Department	Teacher's Name	E-mail ID
1	MATHEMATICS	SHIVKUMAR TIWARI (VP)	viceprincipal@academicworld.co.in
2		SHAILESH SHARMA	shailesh.sharma@academicworld.co.in
3		SHIVAM MISHRA	shivam.mishra@academicworld.co.in
4		SHUBHAM TIWARI	shubham.tiwari@academicworld.co.in
5		SONU PANDIT	sonu.pandit@academicworld.co.in
1	SCIENCE	NEETA RAICHA (ACO)	academiccoordinator@academicworld.co.in
2		AMIT KUMAR TIWARI	amit.tiwari@academicworld.co.in
3		DURGA TIWARI	durga.tiwari@academicworld.co.in
4		NEHA SARAF	neha.saraf@academicworld.co.in
5		PINKI DASRORA	pinki.dasrora@academicworld.co.in
6		RITU SHARMA	ritu.sharma@academicworld.co.in
7		SANJAY SONI	sanjay.soni@academicworld.co.in
8		SHABANA BANO	shabana.bano@academicworld.co.in
9		SHAIK HUSSAIN BASHA	shaik.basha@academicworld.co.in
10		SHWETA K. SINGH	shweta.singh@academicworld.co.in
11		SURAJ KUMAR	suraj.rout@academicworld.co.in
1	SPORTS	ALPHONSE LEPCHA	alphonse.lepcha@academicworld.co.in
2		ANIRUDH YADAV	anirudh.yadav@academicworld.co.in
3		KAJAL TANISHA	kajal.tanisha@academicworld.co.in
4		SHIVA GAUTAM	shiva.gautam@academicworld.co.in
5		VIDUSHI CHOUHAN	vidushi.chauhan@academicworld.co.in
1	COMMERCE	AMAN THAKKAR	aman.thakkar@academicworld.co.in
2		ATUL KUMAR RAI	atul.rai@academicworld.co.in
3		CHANDAN BOSE	chandan.bose@academicworld.co.in
4		DHEERAJ CHOUDHARY	dheeraj.chaudhary@academicworld.co.in
5		PRAGATI UPADHYAY	pragati.upadhyay@academicworld.co.in
6		PREETI SAINI	preeti.saini@academicworld.co.in
7		SAROJA BALA	saroja.bala@academicworld.co.in
8		VIBHOR PANDAY	vibhor.panday@academicworld.co.in
1	HINDI	ANAND KUMAR SHANDILYA	anand.shandilya@academicworld.co.in
2		ARVIND DUBEY	arvind.dubey@academicworld.co.in
3		GANESH CHANDRAVANSI	ganesh.ramchandravanshi@academicworld.co.in
4		MEDURAM GURJAR	meduram.gurjar@academicworld.co.in
5		RAJLAXMI KASHYAP	rajlaxmi.kashyap@academicworld.co.in
1	HUMANITIES	AYON SEN	ayon.sen@academicworld.co.in
2		GUNADHAR SINHA	gunadhar.sinha@academicworld.co.in
3		MANISHA DAS	manisha.das@academicworld.co.in
4		NAWAB HUSSAIN	nawab.hussain@academicworld.co.in
5		NRUPA NAG	nrupa.nag@academicworld.co.in
6		SUBORNO ROY	suborno.roy@academicworld.co.in
7		SURENDRA GINGH GURJAR	surendra.gurjar@academicworld.co.in
1	ENGLISH	ARINDAM SANTRA	arindam.santra@academicworld.co.in
2		BHALCHANDRA TIMANDE	balachandra.timande@academicworld.co.in
3		INDRANI SIL	indrani.sil@academicworld.co.in
4		JEETENDRA SONPAT	jeetendra.sonpat@academicworld.co.in
5		KUMARJEET SARKAR	kumarjeet.sarkar@academicworld.co.in
6		SACHIN KUMAR	sachin.kumar@academicworld.co.in
7		SUNITA GUPTA	sunita.gupta@academicworld.co.in
1	COMPUTER	BRIJESH KUMAR SONI	brijesh.soni@academicworld.co.in
2		JOY PRAKASH SHARMA	joy.sharma@academicworld.co.in
3		LIPI BASU	lipi.basu@academicworld.co.in
4		SOUMYA RANJAN NANAK	soumya.nayak@academicworld.co.in