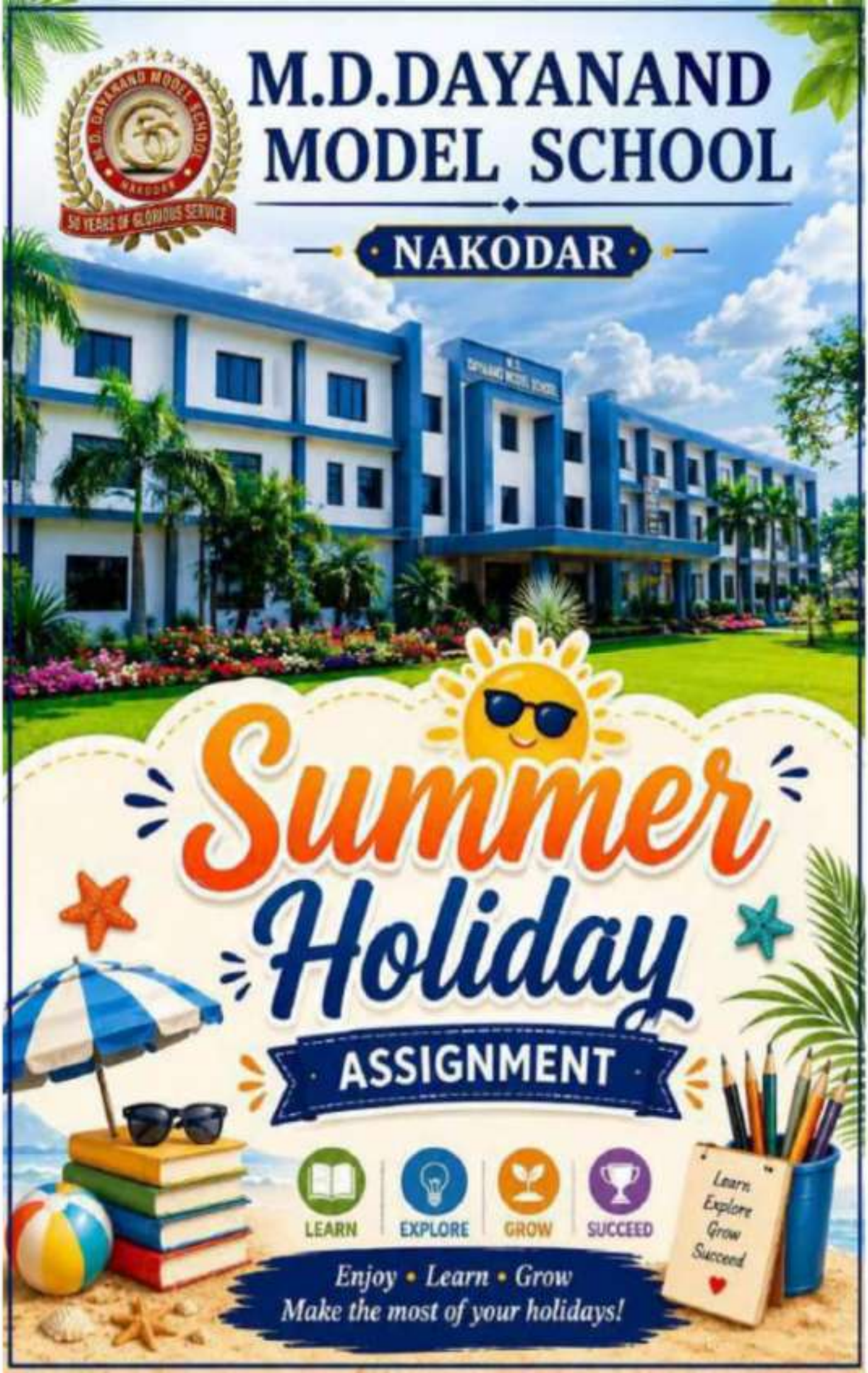

M.D.DAYANAND
MODEL SCHOOL
NAKODAR
Summer
Holiday
ASSIGNMENT
LEARN
EXPLORE
GROW
SUCCEED
Learn
Explore
Grow
Succeed
Enjoy • Learn • Grow
Make the most of your holidays!

HOLIDAYS ASSIGNMENT

CLASS 3RD 2026

INSTRUCTIONS

Academic Enrichment

1. Read Regularly: Choose books that interest you and read at least 20–30 minutes daily.
2. Practice Skills: Revise important topics in subjects like math, science, or languages to stay sharp.

3. Explore New Topics:

Try learning something new—coding, art, a new language, or music.

Limit Screen Time

1. Avoid excessive use of mobile phones, video games, and social media.

Healthy Mind, Healthy Body

1. Stay Active: Do physical activities like walking, cycling, yoga, or playing outside.
2. Eat Healthy: Maintain a balanced diet—avoid too much junk food
3. Maintain Hygiene: Wash your hands regularly and keep your surroundings clean.

ENGLISH

TOPIC: MY HEALTHY PLATE

Activity 1: Draw and Label:

Draw a healthy plate on an A4 sheet which will contain the four sections: Fruits, Vegetables, Grains and Proteins:

Activity 2:

Write five lines on your Favourite Dish:

Activity 3: Speaking

Talk for 1-2 minutes on the topic "My Healthy Plate". Share how healthy food is important in our daily life:

Rubrics:

1. Creativity - 3 Marks
2. Understanding - 2 Marks
3. Speaking - 5 Marks

HINDI

स्वस्थ थाली (Healthy Plate)

- A4 शीट पर एक सुंदर "स्वस्थ थाली" बनाइए।
- थाली में फलों, सब्जियों, अनाज तथा दूध से बनी चीजों के चित्र बनाकर रंग भरिए।
- चित्र को साफ-सुथरा और आकर्षक बनाइए।
- चित्र के नीचे "स्वस्थ भोजन" पर पाँच पंक्तियाँ लिखिए।

लेखन कार्य

- छुट्टियों में स्वस्थ भोजन के महत्व को बताते हुए अपने मित्र को एक पत्र लिखिए।
- पत्र सही प्रारूप में लिखें।

मूल्यांकन बिंदु:

- सही प्रारूप – 1 अंक
- विषय की स्पष्टता – 2 अंक
- रचनात्मकता एवं प्रस्तुति – 2 अंक

SCIENCE

Topic – My Healthy Plate

Make a two-column plate showing:

Healthy Food

Junk Food

Paste pictures or draw different food items in both columns.

Write:

Which food should be eaten more often ?

Rubrics:

1. Creativity – 3 marks
2. Understanding – 2 marks

PUNJABI

ਸੰਤੁਲਿਤ ਭੋਜਨ ਦਾ ਚੱਕਰ ਬਣਾਉਦੇ ਹੋਏ ਸੰਤੁਲਿਤ ਭੋਜਨ ਦੇ ਕੋਈ ਪੰਜ ਲਾਭ ਦੱਸੋ।

RUBRICS

1. ਰਚਨਾਤਮਕ ਕਾਰਜ- 2
2. ਪੇਸ਼ਕਾਰੀ-2
3. ਭਾਸ਼ਾ ਦੀ ਸ਼ੁੱਧਤਾ-1

MATHEMATICS

MATHEMATICS ACTIVITY – MY HEALTHY PLATE

Prepare a colourful healthy plate using fractions to represent different nutritious food items.

Instructions

Draw a large plate and divide it into fractions showing different food groups.

Use colours, drawings, cut-outs, or pictures of food items.

Label each part clearly with its fraction.

Example:

Fruits – 1/4

Vegetables – 1/4

Cereals – 1/2

Dairy – 1/8

Rubrics

Use of Fractions Correctly – 3 Marks

Understanding of Healthy Food Groups – 2 Marks

Creativity and Presentation – 3 Marks

Labelling and Organisation – 1 Mark

Neatness – 1 Mark

Make your healthy plate colourful, neat and creative! Make your healthy plate colourful, neat and Ma! Make your healthy plate colourful, neat and creative!

COMPUTER

1. Prepare a poster on "Eat Healthy, Stay Healthy."

2. Collect pictures of healthy meals from newspapers or the internet and make a scrapbook.

Create a image poster

Rubrics

Creativity – 2 marks

* Neatness – 1 mark

* Content – 1 mark

* Design & color – 1 mark

SOCIAL SCIENCE

Topic : Healthy Food

Activity-1 Healthy food platter

Draw and colour a healthy food platter on an A4 sheet.

Activity-2 Benefits of healthy food

Write any four benefits of healthy food

Art integrated activity

Make a colourful slogan card on Healthy Food.

RUBRICS

Creativity 2

Understanding 2

Relevancy 1

REVISE UT 1 SYLLABUS

Holidays Assignment
Class- 4th

Instructions :

Academic Enrichment

1. Read Regularly: Choose books that interest you and read at least 20–30 minutes daily.
2. Practice Skills: Revise important topics in subjects like math, science, or languages to stay sharp.

3. Explore New Topics: Try learning something new—coding, art, a new language, or music.

💻 Limit Screen Time

1. Avoid excessive use of mobile phones, video games, and social media.

🧠 Healthy Mind, Healthy Body

1. Stay Active: Do physical activities like walking, cycling, yoga, or playing outside.
2. Eat Healthy: Maintain a balanced diet—avoid too much junk food
3. Maintain Hygiene: Wash your hands regularly and keep your surroundings clean.

SCIENCE

💧 Topic – Water Around Us 💧
📘 Make a mini booklet titled

"My Water Diary"

✍️ Write and paste pictures showing how you used water wisely for 10 days.

You may include activities like:
🚰 Turning off taps properly
🪥 Using less water while brushing
🪴 Reusing water for plants
🚿 Taking short baths
🌱 Watering plants carefully
📸 Paste or draw pictures for each day to show smart ways of saving water.
💙 Save Water, Save Life 💙
Rubrics:
Creativity-2
Understanding-2
Presentation-1

MATHS

Topic- Water Around Us
Observe the water consumption of family members category-wise and calculate the total weekly water consumption. Write the final amount in number names, Roman numerals and Hindu-Arabic numerals. Also write a few lines on the significance of water in daily life.
Instructions- Use Chart paper, pictures and draw in tabular form.
Rubrics:

- Accuracy of Data Collection – 3 Marks
- Correct Use of Number Forms – 2 Marks
- Mathematical Calculation – 2 Marks
- Understanding of Water Conservation – 2 Marks
- Presentation and Neatness – 1 Marks

COMPUTER

1.Design a poster on "Save Water".
2. Prepare a scrapbook on water conservation using printed pictures
Rubrics
Creativity – 2 marks
* Neatness – 1 mark
* Relevance to topic – 1 mark
* Colour/design – 1 mark

HINDI

Class 4th – Holidays Assignment
जल का महत्व
A4 शीट(file)पर "जल का महत्व" विषय पर सुंदर चित्र बनाइए।
चित्र में रंग भरकर उसे सजाइए।
चित्र के चारों ओर पानी के विभिन्न उपयोग लिखिए।
लेखन गतिविधि
पुस्तिका (Copy) में "जल का महत्व" विषय पर अनुच्छेद लिखिए।
मूल्यांकन बिंदु:
सही प्रारूप – 1 अंक
विषय की स्पष्टता – 2 अंक
रचनात्मकता एवं प्रस्तुति – 2 अंक

ENGLISH

Topic: Water Around Us
Activity 1: Paragraph Writing
Write a paragraph on importance of conserving water.
Activity 2: Make Sentences
Use these words in meaningful sentences:
1.Rain –
_____
2.Ocean –
_____
3.River –
_____
4.Waterfall –
_____

Activity 3: Creative Drawing
Draw and colour a beautiful picture showing different sources of water .
Activity 4: Speaking
Talk for 1-2 min on the topic " Water Around Us".
Share how water is important in our daily life.
Rubrics:
1. Creativity – 3 Marks
2. Understanding - 2 Marks
3. Speaking- 5 Marks

SOCIAL SCIENCE

Topic: Water Around Us
Activity 1- Uses of water
Write ten uses of water.
Art integrated activity
Make a colourful poster on Water Around Us
Understanding 2
Creativity 2
Relevancy 1

PUNJABI

ਜਮਾਤ ਚੌਥੀ

ਪਾਣੀ ਦੀ ਸੰਭਾਲ ਸਬੰਧੀ ਤਸਵੀਰ ਸਹਿਤ ਪੋਸਟਰ ਬਣਾਓ (A'4 sheet)

ਮੁਲਾਂਕਣ

1. ਰਚਨਾਤਮਕ ਕਾਰਜ- 2
2. ਪੇਸ਼ਕਾਰੀ-2
3. ਭਾਸ਼ਾ ਦੀ ਸ਼ੁੱਧਤਾ-1

Note: Do revision of UT-1 syllabus.

Summer Vacation Assignment

M.D.DAYANAND MODEL SCHOOL, NAKODAR

SESSION: 2026-27

Class -5th

Topic - Festival of India

Dear Students, Following are few instructions for summer vacation

• Academic Enrichment

1. **Read Regularly:** Choose books that interest you and read at least 20–30 minutes daily.
2. **Practice Skills:** Revise important topics in subjects like math, science, or languages to stay sharp.
3. **Explore New Topics:** Try learning something new—coding, art, a new language, or music.

• Limit Screen Time

1. Avoid excessive use of mobile phones, video games, and social media.

• Healthy Mind, Healthy Body

1. **Stay Active:** Do physical activities like walking, cycling, yoga, or playing outside.
2. **Eat Healthy:** Maintain a balanced diet—avoid too much junk food
3. **Maintain Hygiene:** Wash your hands regularly and keep your surroundings clean.

SOCIAL SCIENCE

ENGLISH

FESTIVALS OF INDIA

Celebrate our culture, our traditions, our happiness!

MY FAVOURITE FESTIVAL

(Draw a colourful picture of your favourite festival here)

WRITE ABOUT YOUR FAVOURITE FESTIVAL

Name of Festival: _____

When it is celebrated: _____

Story behind the festival: _____

How I like to celebrate: _____

FESTIVAL WORD BANK – 10 NEW WORDS

	Word	Meaning	Make a sentence
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

FOR SPEAKING SKILL

Students will make a 2 minutes video on any one topic and send to the subject teacher.

REVISION

Revise
UT-1 Syllabus

RUBRICS

Creativity	★★	(2)
Presentation	★★	(2)
Vocabulary	★	(1)

HINDI

कक्षा 5वीं

भारत के राष्ट्रीय त्योहार

(A4 शीट के साथ फाइल)

निम्नलिखित राष्ट्रीय त्योहारों के चित्र बनाकर रंग भरिए:

- स्वतंत्रता दिवस – 15 अगस्त
- गणतंत्र दिवस – 26 जनवरी
- गांधी जयंती – 2 अक्टूबर

लेखन कार्य

- प्रत्येक त्योहार पर 10–10 पंक्तियाँ लिखिए।
- देशभक्ति पर कोई एक सुंदर स्लोगन / नारा लिखिए।
- सारा कार्य A4 शीट पर कीजिए।
- (A4 शीट के साथ फाइल लगाएँ)

मूल्यांकन बिंदु:

- सही प्रारूप – 1 अंक
- विषय की स्पष्टता – 2 अंक
- रचनात्मकता एवं प्रस्तुति – 2 अंक

निर्देश

- सभी कार्य साफ-सुथरी लिखावट में करें।
- चित्रों में सुंदर रंग भरें।

SCIENCE

SCIENCE HOME ASSIGNMENT

Theme: Festivals of India

"Celebrate festivals with colours of nature, not chemicals."

"Rangoli adds colours of joy to the festivals of India."

Dear Students,

Festivals in India are full of happiness, lights, decorations, and beautiful rangolis. This vacation, let us celebrate our culture in an eco-friendly way by creating a Rangoli using natural colours made from kitchen ingredients. This activity will help you learn how nature provides us with safe and beautiful colours.

Activity: Make Natural Colours and Design a Rangoli

You will prepare natural colours at home and use them to create a lovely rangoli design on an A4 sheet.

Prepare Natural Colours

- Beetroot – Red/Pink
- Spinach – Green
- Turmeric – Yellow
- Coffee – Brown
- Mehendi – Light green/brown
- Rice flour – White

Steps to Make the Rangoli

- Take an A4 drawing sheet.
- Draw a simple rangoli design lightly with a pencil.
- Fill the design carefully using the prepared natural colours.
- You may use your fingers or a brush to fill colours neatly.
- Let it dry completely.

Rubric

- Creativity 2
- Presentation & Neatness 2
- Use of Natural Materials 1

We are excited to see your beautiful, eco-friendly rangoli creations.

During your vacations, kindly revise the following chapters:

- Chapter 2 (Plants)
- Chapter 3 (Forests)

MATHEMATICS

HOLIDAY HOMEWORK WORKSHEET

Class V – Mathematics

My Favourite Festival Budget Plan

Prepare a budget plan for your favourite festival by estimating the expenses for different celebration items. Represent the data neatly in a table, calculate the total expenditure, and compare the highest and lowest expenses.

INSTRUCTIONS:

- Choose your favourite festival.
- List the estimated expenses for different items.
- Complete the table neatly.
- Calculate the total expenditure.
- Compare the highest and lowest expenses.
- Write a few lines about why the festival is special to you.
- Decorate your worksheet with colours, drawings, or borders.

RUBRICS CRITERIA

	Marks
Budget Planning and Calculation	3
Tabular Representation	2
Comparison and Analysis	2
Creativity and Presentation	2
Neatness	1
Total Marks: 10	

Festivals bring happiness, love and togetherness. They teach us to be grateful and celebrate life!

Punjabi

ਪੰਜਾਬ ਦੇ ਮੁੱਖ ਤਿਉਹਾਰਾਂ ਦੀ ਤਸਵੀਰ ਸਹਿਤ ਸੂਚੀ ਤਿਆਰ ਕਰੋ ਅਤੇ ਕਿਸੇ ਇੱਕ ਤਿਉਹਾਰ ਦਾ ਚਾਰ ਪੰਜਾਬ ਸ਼ਬਦਾਂ ਵਿਚ ਵਰਨਣ ਕਰੋ

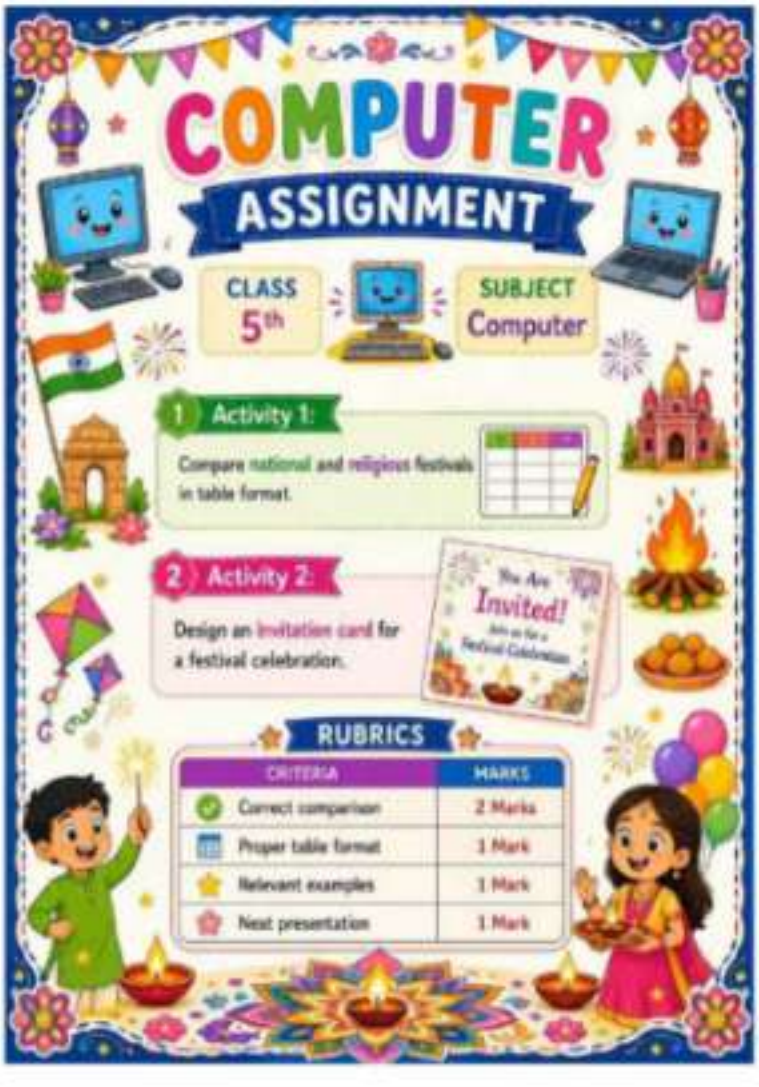
ਮੁਲਾਂਕਣ

1. ਤਸਵੀਰਾਂ ਕਾਰਨ-2

2. ਪੇਸ਼ਕਾਰੀ-2

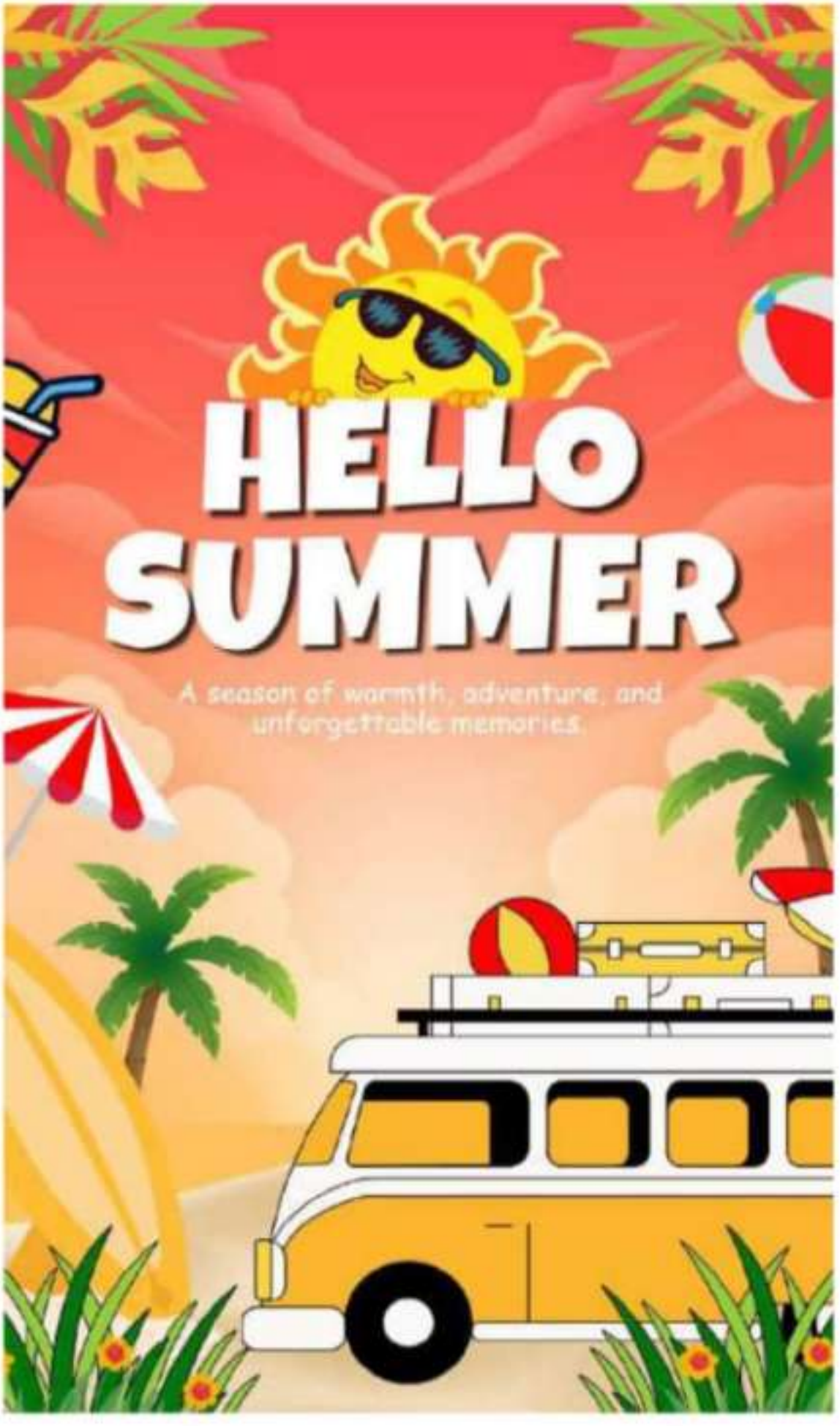
3. ਭਾਸ਼ਾ ਦੀ ਸ਼ੁੱਧਤਾ-1

Computer



Revise UT-1 Syllabus

NOTE:- ALL THE WORK MUST BE DONE ON A4 SIZE COLOURED SHEETS AND MAKE A SINGLE FILE FOR ALL SUBJECTS.


HELLO
SUMMER
A season of warmth, adventure, and unforgettable memories

SUMMER

Academic Enrichment

1. Read Regularly: Choose books that interest you and read at least 20–30 minutes daily.

2. Practice Skills: Revise important topics in subjects like math, science, or languages to stay sharp.

3. Explore New Topics: Try learning something new—coding, art, a new language, or music.

Limit Screen Time

1. Avoid excessive use of mobile phones, video games, and social media.

Healthy Mind, Healthy Body

1. Stay Active: Do physical activities like walking, cycling, yoga, or playing outside.

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3. Maintain Hygiene: Wash your hands regularly and keep your surroundings clean.

Maths Homework

Class 6

1. Observe and document the temperature variations of one complete week in a well-structured table.
2. Illustrate the collected weather data creatively through a bar graph.
3. Compare the highest and lowest temperatures recorded during the week.
4. Mention the impact of weather on daily life in that state.

Rubrics

- Accuracy of Data Collection - 2 Marks
- Presentation of Table - 2 Marks
- Bar Graph Representation - 3 Marks
- Comparison and Analysis - 2 Marks
- Creativity and Neatness - 1 Mark

Day	Temperature (°C)


Computer
Class 6
Importance of Weather Forecasting
1. Create a digital poster on "Importance of Weather Forecasting."
2. Write five uses of computers in weather forecasting.
Rubrics:
• Creativity - 2 Marks
• Content Relevance - 1 Mark
• Design & Color - 1 Mark
• Neatness - 1Mark

Social Science

Summer Vacation Questions

1. Which five or six festivals are celebrated in different parts of India?
2. In which state or region is each festival mainly celebrated?
3. Mark each festival on an outline map of India,
4. Use colours and symbols to make the map attractive.
5. What are the names of the festivals and the places where they are celebrated?
6. How is each festival celebrated? (Write 2-3 lines for each)

RUBRICS

Concept Clarity:	2
Creativity:	2
Relevancy:	1

Time to Explore!

English

Exploring Weather & Its Impact Across the States

🎨 Activity 1: Weather Vocabulary Wheel

Create a colorful wheel of 4 seasons and add 5 weather words in each season with sentences(of all taken words by you)

Example: "Rajasthan has a scorching and dry climate."

Assessment (3M)

Creativity and art - 1

Content Accuracy - 1

Presentation Skills - 1

🎤 Activity 2: Weather Reporter

Record a 1–2 minute video and send it to respect subject teacher:

Start with: "Welcome to Exploring Weather and Its Impact Across the States!"

Describe one state's weather, season, and its impact on life

Use 4–5 vocabulary words (humid, chilly, scorching, etc.)

📌 Assessment (3M)

✔ Content – 1

✔ Language – 1

✔ Creativity/Confidence – 1

14:36

ਪੰਜਾਬੀ

ਘੜੀ ਦੇ ਅਕਾਰ ਵਿਚ ਰੁੱਤਾਂ ਦਾ ਚੱਕਰ ਦੇਸੀ,ਅੰਗਰੇਜ਼ੀ ਮਹੀਨਿਆਂ ਦੇ ਨਾਂ ਲਿਖਦੇ ਹੋਏ ਤਿਆਰ ਕਰੋ

ਮੁਲਾਂਕਣ

1. ਰਚਨਾਤਮਕ ਕਾਰਜ 2
2. ਪੇਸ਼ਕਾਰੀ 2
3. ਭਾਸ਼ਾ ਦੀ ਸ਼ੁੱਧਤਾ 1

SUMMER

Holidays homework

6th

भारत के 5 राज्यों के मौसम की जानकारी देते हुए चित्र सहित चार्ट तैयार करें।

राज्य का नाम

मुख्य मौसम -

तापमान -

विशेष प्रभाव -

1. भारत के राजनैतिक मानचित्र (political map) पर भारत के राज्यों को उनके मौसम के अनुसार दर्शाएँ।

a) अधिक सर्दी वाले राज्य-नीला रंग

b) अधिक गर्मी वाले राज्य - लाल रंग

c) अधिक ठंडा वाले राज्य -पीला रंग

मूल्यांकन बिंदु

उचित जानकारी- 2

रचनात्मकता / प्रस्तुतिकरण- 2

कार्यपूर्णता- 1

Project Work
Subject-Science
Class-6th

Different weather, different fabrics, same comfort.

Topic:

"Exploring Weathers and its impact across states"

Objective:

To understand different weather conditions in various states of India and to learn how climate affects the choice of fabric and clothing.

Instructions for the Project:

- The project should be prepared neatly on A4 sheets or in a scrapbook.
- Students must include information about at least four Indian states with different weather conditions.
- Mention the climate, suitable fabrics, and clothes worn in those states.
- Paste or draw pictures related to weather and clothing.
- Students must paste small fabric samples such as cotton, wool, silk, or polyester.
- Proper labelling and neat handwriting are compulsory.
- Include introduction, table, observations, and conclusion in the project.

Suggested States:

Rajasthan, Kerala, Himachal Pradesh, Assam, Punjab, Gujarat, etc.

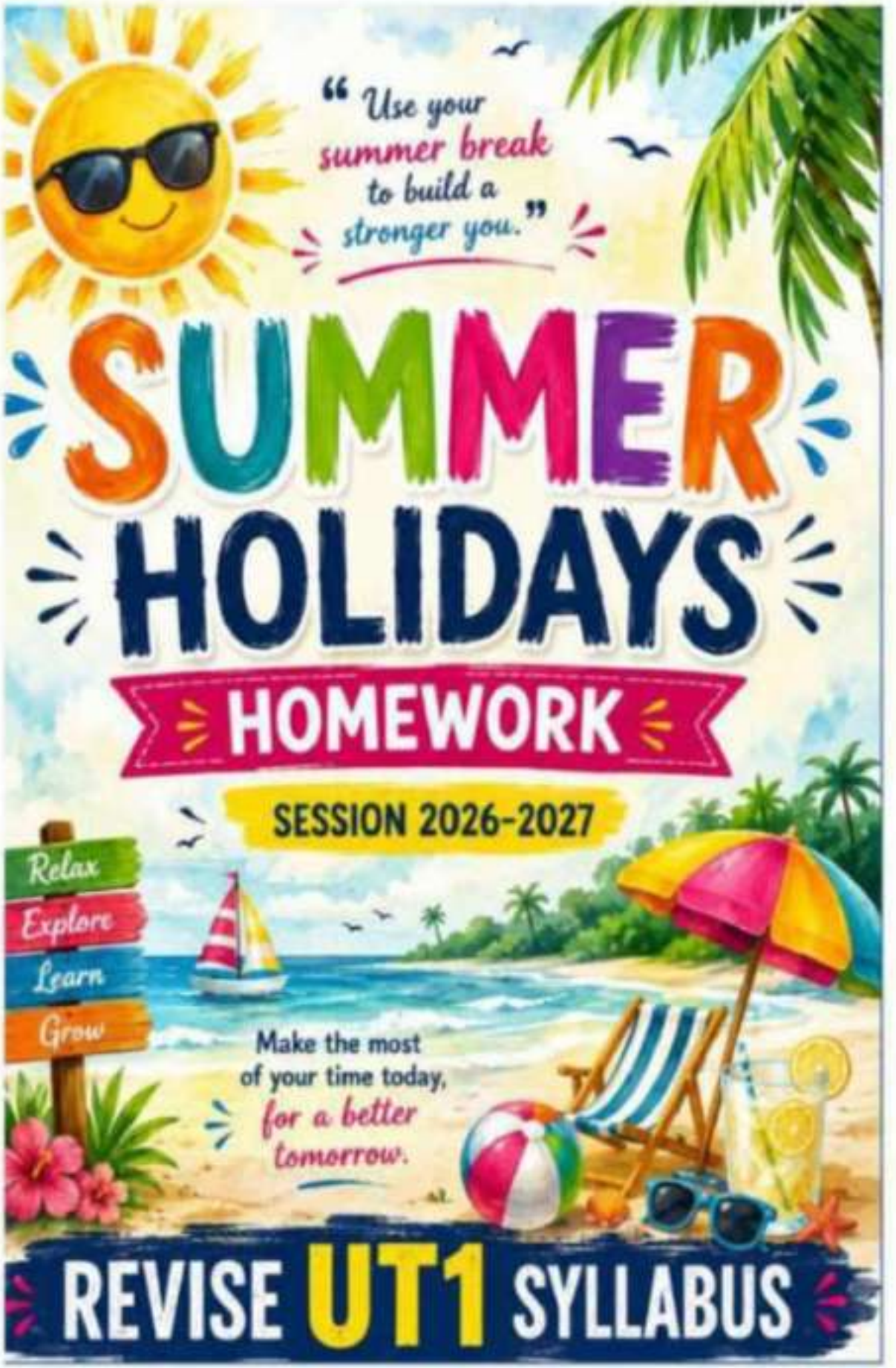
Assessment Criteria:

Content and accuracy	-2
Creativity and presentation	-2
Neatness	-1

Note: Revise Periodic Test - 1st Syllabus also.

Chapter -6 (Measurements and Motion)
Chapter -3 (Nature of Matter)

REVISE UT 1 SYLLABUS


"Use your summer break to build a stronger you."
SUMMER
HOLIDAYS
HOMEWORK
SESSION 2026-2027
Relax
Explore
Learn
Grow
Make the most of your time today, for a better tomorrow.
REVISE UT1 SYLLABUS

INSTRUCTIONS

Academic Enrichment

1. Read Regularly: Choose books that interest you and read at least 20–30 minutes daily.

2. Practice Skills: Revise important topics in subjects like math, science, or languages to stay sharp.

3. Explore New Topics: Try learning something new—coding, art, a new language, or music.

💻 Limit Screen Time

1. Avoid excessive use of mobile phones, video games, and social media.

🧠 Healthy Mind, Healthy Body

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2. Eat Healthy: Maintain a balanced diet—avoid too much junk food

3. Maintain Hygiene: Wash your hands regularly and keep your surroundings clean.

SUMMER HOLIDAY ASSIGNMENT 2026

Class VII – Creative & Healthy Food Assignment

Eat Healthy • Stay Active • Learn Creatively

Social Science Holiday Assignment

Topic: Mid-Day Meal Scheme

Objectives:

- Understand the importance of nutritious food.
- Learn about the Mid-Day Meal Scheme.
- Develop awareness about healthy eating habits.
- Understand the role of balanced diet in daily life.

Part A – Questions & Answers

Q.No.	Questions
1	Write a short note on the Mid-Day Meal Scheme.
2	Why is the Mid-Day Meal Scheme important for school children?
3	Name any five healthy food items that should be included in a balanced diet.

Part B – Observation & Analysis

- 1. Which nutrients are included in healthy meals?
- 2. How can healthy food habits help us stay fit and active?

Part C – Art Integration Activity

1. Prepare a creative weekly planner of healthy meals.
2. Draw or paste pictures of healthy food items and decorate them creatively.
3. Make a colourful poster on the topic 'Mid-Day Meal Scheme'

✦ Mathematics Home Assignment ✦

Weekly Food Expenditure Planner

Design a weekly food expenditure planner by listing food items and their costs in tabular form. Depict the information using a bar graph and analyse the most favoured as well as the least chosen food item. Also highlight the importance of healthy eating habits.

📊 Weekly Food Expenditure Table

Day	Food Item	Cost (₹)
Monday	Fruits & Milk	120
Tuesday	Vegetables & Roti	150
Wednesday	Rice & Dal	130
Thursday	Sandwich & Juice	100
Friday	Pizza	250
Saturday	Burger & Fries	220
Sunday	Salad & Soup	110

💰 Total Weekly Expenditure = ₹1080

📈 Bar Graph Instructions

- Draw the bar graph neatly on graph paper.
- X-Axis → Food Items / Days
- Y-Axis → Cost in Rupees (₹)
- Use different colours for each bar.

📝 Analysis and Conclusion

- The most favoured food item is Pizza because the highest expenditure was made on it (₹250).
- The least chosen food item is Sandwich & Juice because the expenditure was lowest (₹100).
- Healthy food items like fruits, vegetables, dal, salad, and soup help us stay fit and strong.
- Balanced meals improve energy, growth, and immunity.
- Junk food should be eaten occasionally to maintain good health

📋 Rubrics

- Proper Tabular Representation – 2 Marks
- Accuracy of Budget Calculation – 2 Marks
- Graphical Representation – 3 Marks
- Analysis and Conclusion – 2 Marks
- Creativity and Presentation – 1 Mark

✨ Eat Healthy • Stay Healthy ✨

Class – 7th SCIENCE

To understand the importance of a balanced diet and healthy eating habits by

Preparing a weekly food planner.

Instructions:

➢ Prepare a 7-day food planner including:

Breakfast, Lunch, Evening Snack, Dinner

➢ In this plan includes food containing following nutrients:

Carbohydrates, Proteins, Fats, Vitamins, Minerals

Mention:

➢ Nutrients present in each meal

➢ Benefits of the food items

➢ Importance of drinking water

Add:

➢ Seasonal fruits and vegetables

➢ Healthy alternatives to junk food

Present the project creatively using:

Charts, Drawings, Pictures, Tables

Assessment Criteria:

➢ Accuracy of nutrients- 1

➢ Creativity and presentation- 2

➢ Scientific understanding- 1

➢ Completion of work-1

ਪੰਜਾਬੀ ਗਰਮੀਆਂ ਦੀਆਂ ਛੁੱਟੀਆਂ ਦਾ ਕੰਮ

ਵਿਦਿਆਰਥੀ ਆਪਣੀ ਇੱਕ ਹਫ਼ਤੇ ਦੀ ਪੌਸ਼ਟਿਕ ਭੋਜਨ ਦੀ ਸਮਾਂ-ਸਾਰਣੀ ਰੰਗਦਾਰ ਸ਼ੀਟ 'ਤੇ ਤਿਆਰ ਕਰਨਗੇ ਅਤੇ ਇਸਨੂੰ ਗਰਮੀਆਂ ਦੀਆਂ ਛੁੱਟੀਆਂ ਵਿੱਚ ਲਾਗੂ ਕਰਨਗੇ।

ਪੌਸ਼ਟਿਕ ਭੋਜਨ ਦੀ ਸਮਾਂ-ਸਾਰਣੀ

ਦਿਨ	ਸਵੇਰੇ	ਨਾਸ਼ਤਾ	ਦੁਪਹਿਰ ਦਾ ਖਾਣਾ	ਸ਼ਾਮ	ਰਾਤ ਦਾ ਖਾਣਾ
ਸੋਮਵਾਰ					
ਮੰਗਲਵਾਰ					
ਬੁੱਧਵਾਰ					
ਵੀਰਵਾਰ					
ਸ਼ੁੱਕਰਵਾਰ					
ਸ਼ਨੀਵਾਰ					
ਐਤਵਾਰ					

ਮੁਲਾਂਕਣ ਦੇ ਮਾਪਦੰਡ

- ਰਚਨਾਤਮਕਤਾ – 2 ਅੰਕ
- ਪੇਸ਼ਕਾਰੀ – 2 ਅੰਕ
- ਭਾਸ਼ਾ ਦੀ ਸ਼ੁੱਧਤਾ – 1 ਅੰਕ

** English Holiday Assignment* 🌈

#*Rainbow Food Planner*

"Eat Healthy, Stay Happy!" 💪😊

🎨 Part A – Creative Art Work*

*🍎 Make a "Rainbow Food Planner"

📋 *Your Task:*

Take an A4 sheet or notebook and create a beautiful *7-Day Weekly Food Planner*

🗓️ *Layout:* Divide the page into 7 colourful boxes:

- 🟥 *Monday* | 🟧 *Tuesday* | 🟨 *Wednesday* | 🟩 *Thursday*
- 🟦 *Friday* | 🟪 *Saturday* | 🖼️ *Sunday*

🖼️ In Each Day's Box, Add:

✅ *Breakfast* | ✅ *Lunch* | ✅ *Snacks* | ✅ *Dinner

🖍️ Draw colorful healthy foods like:

🍌 Bananas | 🥗 Salad | 🥛 Milk | 🍎 Apple | 🥕 Carrot

*✨ Decoration Ideas

Make your planner attractive using: Stars | 😊 Emojis | 🌈 Borders | 🎀 Stickers

*💬 Example Speech Bubbles:

- _"Healthy food makes me strong!"_ 💪
- _"Good food = Good mood!"_ 😊
- _"Eat fresh, feel fresh!"_

🌟 Special Creative Twist – Mood Colours

Colour each day according to your mood after eating healthy food:

🎨 **Mood Colour** 😊 **Meaning**

💛 Yellow Happy

💚 Green Healthy

🧡 Orange Energetic

📝 Example: If Monday's food made you energetic, colour the box *orange* 🧡

📖 Part B – Writing Skill

"My Healthy Week Diary"

After completing your planner, write a paragraph on:

📝 *Topic:* _How Healthy Food Changes My Mood_

✍️ *Word Limit:* 80–100 words

📊 Activity Rubrics (5 Marks)

Criteria **Marks**

🎨 Creativity & Artwork 2

🥗 Food Planning & Mood Colours 2

✨ Neatness 1

🎤 Speaking Skill Rubrics (5 Marks)

Criteria **Marks**

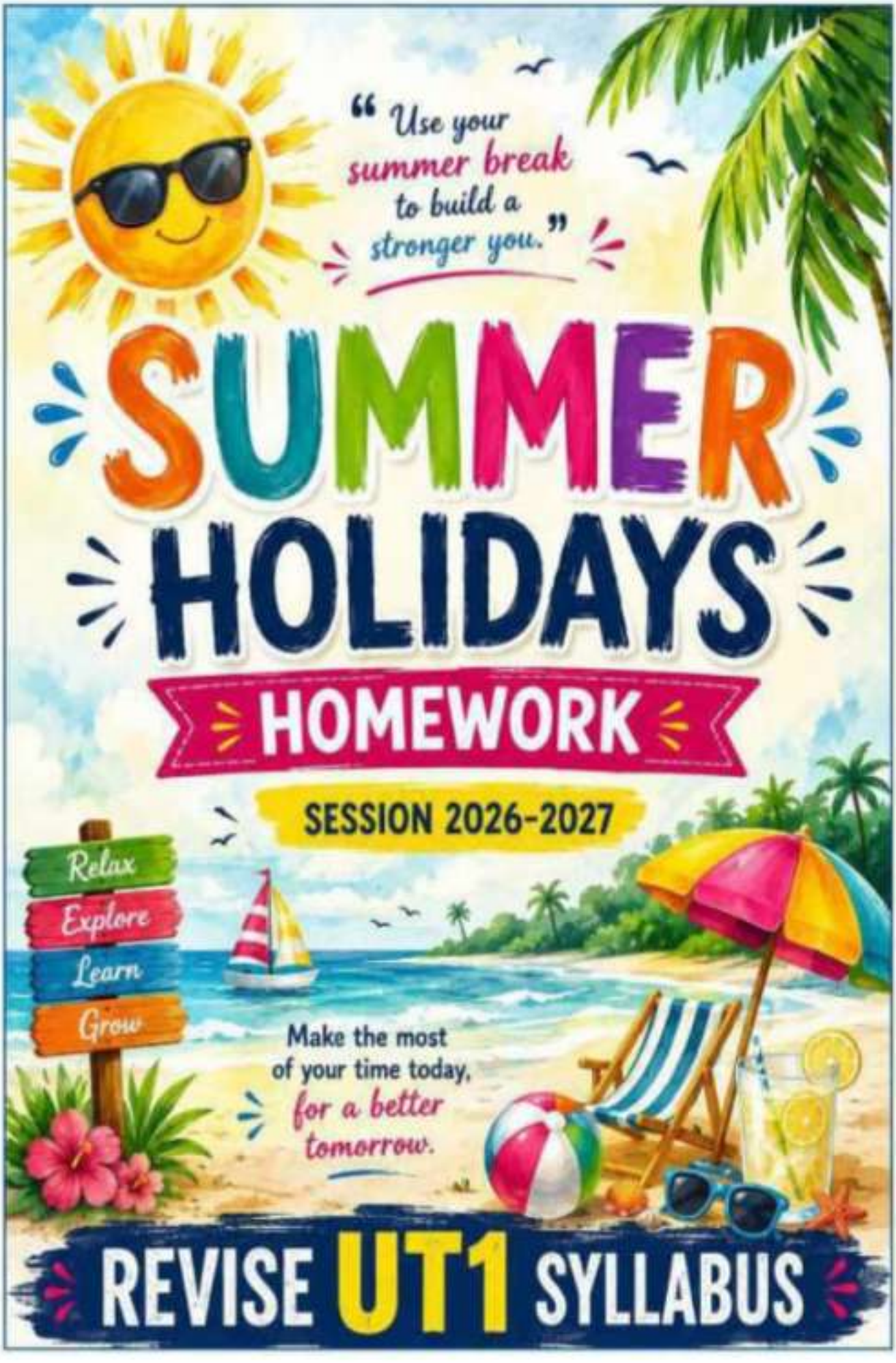
🗣️ Fluency & Confidence 2

🎙️ Pronunciation & Voice Clarity 2

💡 Content & Expression 1

• Hindi Home Assignment 🌟📝

- 📰**स्वस्थ भोजन, मस्त जीवन!* 🍛💪
- ✍️ प्रश्न 1: स्लोगन लेखन*
- *🎯 कार्य:* _स्वस्थ भोजन के प्रचार हेतु स्लोगन लेखन_ 🖊️📁
- *💡 टिप:* आकर्षक शब्दों, तुकबंदी और रंगों का प्रयोग करें
-
- *🌈 उदाहरण स्लोगन:*
- > _"हरी सब्ज़ी, ताज़ा फल, यही है सेहत का असली बल!"_ 🥦🍎
- > _"जंक फूड को कहो बाय, सेहत को गले लगाय!"_ 🚫🍔
- > _"रोज खाओ पौष्टिक आहार, तभी बनेगा जीवन शानदार!"_ 🌟
- *📩 प्रश्न 2: पत्र लेखन*
- *🎯 कार्य:* आपका छोटा भाई/बहन छात्रावास में रहता है और अक्सर बाहर का खाना खाता है। उसे स्वस्थ भोजन खाने की सलाह देते हुए पत्र लिखिए। 📝 पत्र में शामिल करें:*
- 1. 👋 संबोधन और हाल-चाल
- 2. ⚠️ बाहर के खाने के नुकसान
- 3. 🍛 घर के खाने के फायदे
- 4. 💚 प्यार भरी सलाह + शुभकामनाए
-
- *📊 मूल्यांकन बिंदु (5 अंक)*
-
- **मापदंड** **अंक**
- 📄 उचित प्रारूप व विषय वस्तु 2
- 🗣️ रचनात्मकता / प्रस्तुतिकरण 2
  ✅ कार्यपूर्णता 1


“Use your summer break to build a stronger you.”
SUMMER HOLIDAYS
HOMEWORK
SESSION 2026-2027
Relax
Explore
Learn
Grow
Make the most of your time today, for a better tomorrow.
REVISE UT1 SYLLABUS

CLASS 8TH

Academic Enrichment 1 **1.Read Regularly:** Choose books that interest you and read at least 20–30 minutes daily.

2. Practice Skills:

Revise important topics in subjects like math, science, or languages to stay sharp.

3. Explore New Topics :Try learning something new—coding, art, a new language, or music.

💻 Limit Screen Time

1. Avoid excessive use of mobile phones, video games, and social media.🧠 Healthy Mind, Healthy Body

1. Stay Active:

Do physical activities like walking, cycling, yoga, or playing outside.

2. Eat Healthy: Maintain a balanced diet

—avoid too much junk food

3. Maintain Hygiene: Wash your hands regularly and keep your surrounding clean

PUNJABI:

ਅਲੋਪ ਹੋ ਰਹੀਆਂ (ਕੋਈ ਪੰਜ) ਲੋਕ ਖੇਡਾਂ ਦਾ ਤਸਵੀਰਾਂ ਸਹਿਤ ਵਰਣਨ ਕਰਦੇ ਹੋਏ ਹਰ ਖੇਡ ਦੇ ਨਿਯਮ ਦੱਸੋ (50-60 ਸ਼ਬਦਾਂ ਵਿੱਚ)(on file)

ਮੁਲਾਂਕਣ ਦੇ ਮਾਪਦੰਡ:

ਕੁੱਲ ਅੰਕ -5

1. ਰਚਨਾਤਮਕ ਕਾਰਜ 2
2. ਪੇਸ਼ਕਾਰੀ 2
3. ਭਾਸ਼ਾ ਦੀ ਸ਼ੁੱਧਤਾ 1

HINDI

विभिन्न खेलों के समाचारों की कटिंग का कोलाज तैयार करना। (on file)

मूल्यांकन बिंदु-

विभिन्न खेलों की समाचार कटिंग का चयन-2

रचनात्मकता / प्रस्तुतिकरण- 2

कार्यपूर्णता- 1

ENGLISH

ACTIVITY-01

Answer the following questions in 80-100 words

Chapter 1: Three Questions

1.How did the answers given by the hermit help the king understand the true meaning of the three questions? Explain with examples from the story. (Understanding-Based Question)

2. What lesson from the story can students apply in their daily life while making important decisions? Explain with suitable examples. (**Application-Based Question)**

Poem 2: Granny's Tree Climbing

3.Granny continued climbing trees even in old age. What qualities of Granny inspire young people to follow their interests and hobbies fearlessly?(Competency-Based Question)

Chapter 3: Father's Help

4.Describe Swaminathan's feelings on Monday morning and explain why he wanted to avoid going to school. (Understanding-Based Question)

5.Do you think Swami's plan to escape school was right or wrong? Give reasons to support your opinion with reference to the story. (**Analytical Reasoning-Based Question)**

Poem 4: My Mother

6.How can children show love and respect to their mothers in everyday life? Explain using ideas from the poem **(Application-Based Question)**

ACTIVITY-02

Imagine you are Environment News Reporter. You will have to speak about how to make environment clean and green in a video form.Incorporate the Instructions given below while making the video.

Environment News Reporter

Activity

Students will become an Environment Reporter and speak about keeping the environment clean and healthy

Instructions

Record a 1-2 minute video saying:
"Welcome to Environment News!"
Tell which activities help the environment.
Tell which activities harmnature and pollute the surroundings.
Give one environmental protection tip.
Sample Opening
"Good evening everyone!
I am today's Environment Reporter.
Today's news is about protecting our environment and keeping our Earth clean
and green..."

SCIENCE:

Sports Participation and Performance Data

1. Sports and Body Systems :-

You have to study how sports and physical exercise affect different body systems.

Include the Following Body Systems:

Muscular System

Explain the function of muscles in our body.

Describe how sports and exercise strengthen muscles.

Write benefits such as: Increased strength, Flexibility, Better stamina

Give examples of sports that help develop strong muscles.

Respiratory System

Explain the role of lungs and breathing.

Describe what happens to breathing during exercise.

Explain how sports improve lung capacity and oxygen supply.

Mention benefits of regular exercise for the respiratory system.

Circulatory System

Explain the function of the heart and blood vessels.

Describe how exercise affects heartbeat and blood circulation.

Mention benefits of sports for heart health

Add pictures of sports activities wherever possible.

Write a short conclusion on the importance of sports for a healthy body.

2. Balanced Diet for Athletes

Prepare a healthy diet chart for any one sportsperson (football player, cricketer, runner, swimmer, etc.).

Your work should include:

Breakfast, lunch, dinner, and snacks.

Importance of:

Carbohydrates, Proteins, Vitamins & minerals, Water

Explain why athletes need a balanced diet.

Add pictures of healthy food items.

Instructions:

Make the diet chart neat and colourful.

Use tables wherever required.

Write the functions of each nutrient in simple language.

General Instructions

Use a project file/scrapbook/chart paper.

Maintain neat handwriting and proper headings.

Be creative and informative.

Mention your name, class, and roll number on the cover page.

Rubrics for Assessment

Research & Information– 02

Creativity & Presentation- 02

Overall project completion-01

Mathematics

Compile statistical data of any five events from the 2024 Summer Olympics in an organised table. Present the collected information through a linear graph and mention the significance of sports activities in maintaining a healthy and disciplined lifestyle.

Rubrics:

Collection of Relevant Data – 2 Marks
Tabular Representation – 2 Marks
Linear Graph Presentation – 3 Marks
Explanation and Interpretation – 2 Marks
Overall Presentation and Creativity – 1 Mark

Computer

1.Write a short note on how technology helps in sports performance analysis.
2. Design a digital poster on "Importance of Sports and Fitness."

Rubrics

Content relevance – 2 marks
Explanation clarity – 2 marks
Neat presentation – 1 mark

ASSIGNMENT: GENDER PARTICIPATION IN SPORTS

Subject: Social Science | Class: 8

QUESTIONS

1. What do you understand by gender participation in sports?
2. Why are sports important for both boys and girls?
3. Name any four sports played by students in schools.
4. Do boys and girls get equal opportunities in sports? Explain your answer.
5. What are the common problems faced by girls in participating in sports?
6. How can schools encourage equal participation in sports?
7. Why is gender equality important in sports?
8. Write any three benefits of sports participation.
9. Conduct a small survey in your class and fill the table below:
10. Write 5–6 lines on what you learned from this project about gender equality and sports participation.

> SPORTS HAVE NO GENDER, ONLY TALENT AND TEAMWORK.

SURVEY TABLE

Sport	Number of Boys	Number of Girls
Cricket		
Football		
Badminton		
Volleyball		
Athletics		

ACTIVITY

Draw a bar graph showing participation of boys and girls in different sports.

BE ACTIVE. BE FAIR. BE EQUAL. BE A CHAMPION!

HOLIDAY HOMEWORK

CLASS IX

SESSION :2026-27

"True teaching is not filing the mind with facts, but about guiding individuals to discover their own innate wisdom"

Instructions

- **Students are supposed to revise unit I syllabus during summer vacation.**
- **Prepare your assignment during summer vacation.**

Subject: English

Answer the following the question in about (100-120) words and write on your notebooks:

Q1. Analyze how the grandmother's determination to learn Kannada reflects lifelong learning. Provide examples from the story where her resilience led to personal growth, and explain how these qualities can be applied in your own life or future learning."

Q2. "Discuss how the theme of self-respect is portrayed in the story. How does the grandmother's decision to learn independently challenge societal norms? Support your answer with specific incidents from the chapter."

Q3. "A teacher can be younger in age but greater in knowledge." How is this idea reflected in the relationship between the grandmother and granddaughter?

Q4. She's peerless, let's praise her!" How does the poet prove that India is unique and incomparable? Support your answer with examples from the poem.

Q5. "Our sages were saints of peace and love."
Explain how India's cultural heritage and teachings are still relevant in today's world.

Q6. Imagine you are asked to deliver a speech on India's greatness based on the poem. Which three ideas from the poem would you include and why?

Q7. Compare the feelings of patriotism shown in the poem with your own feelings for your country. Which ideas in the poem inspire you the most?

Q8. "Hard work and patience are necessary for success." How is this idea reflected in the story ' The pot maker'

Q9. The pot maker treated his craft with great respect and dedication. What lesson does this teach modern students about the dignity of labour?

Q10. The pot maker faced challenges calmly and wisely.
How can students apply this approach while dealing with academic pressure and failures?

News Report on "Dream Job"

A student will act as a news reporter and speak about his/her dream job, throwing light on its various aspects.

Instructions:

Record a video of 2-3 minutes duration.

Handy Tips:

"Welcome to BBC News. Today, I am __ and I am going to throw light on my dream job, __."

Why do I like this job?

What are its alluring aspects?

Why is it a fruitful profession?

Why do others opt for this profession?

SUBJECT: MATHEMATICS

Question 1: Archaeologists studying a city layout inspired by the Sindhu-Sarasvati civilization map out the settlements on a 2D Cartesian plane. The Main Granary is located at coordinates A(3, 4) and the Crafts Quarter is located at B(3, -5).

a) Plot these points mentally or sketch them, and explain why the pathway connecting the Granary directly to the Crafts Quarter is parallel to the y-axis.

b) Calculate the exact structural distance between these two points in grid units.

Question 2:

A security drone tracks a perimeter boundary. It starts its journey at a outpost located at P(-4, -3).

a) Identify which quadrant this outpost is located in and write down the general coordinates for all quadrants.

b) If the drone flies horizontally to the right until it reaches a point Q that has the exact same distance from the y-axis but lies in the fourth quadrant, write down the coordinates of Q.

Question 3:

An artisan wants to lay out a rectangular altar based on historical structural designs. Three vertices of this rectangular layout are fixed at O(0, 0), X(6, 0), and Y(0, 4).

a) Find the coordinates of the missing fourth vertex Z required to complete the rectangle. Explain how you determined this position using the properties of a rectangle.

b) Find the coordinates of the exact center point where the two diagonals of this altar will intersect.

Question 4:

A community park layout is designed to be perfectly symmetrical across the coordinate axes. A fountain is placed at point M(5, 2).

a) If a seating bench is placed at point N, which is a reflection of point M across the x-axis, state the coordinates of N.

b) If another utility station is placed at point K, which is a reflection of point M across the y-axis, state the coordinates of K.

Question 5:

A triangular plot of land inside a local school is demarcated on a graph paper with the coordinate vertices given as D(1, 1), E(7, 1), and F(1, 6).

a) State the lengths of the base DE and the vertical height DF.

b) Calculate the total perimeter of this triangular plot.

Question 6:

A student is playing a grid-based motion game. The rule of the game states that a player can only occupy coordinates (x, y) where the distance from the horizontal axis is exactly double the distance from the vertical axis, and both coordinates must have opposite signs.

a) Formulate an algebraic relation between x and y that satisfies this rule.
b) Give two distinct coordinate points that satisfy this condition, ensuring one point is in the second quadrant and the other is in the fourth quadrant.

Question 7:

An e-rickshaw driver charges a base fixed fare of ₹30 just to start the ride, and an additional variable fare of ₹12 for every kilometer travelled. Let x represent the distance travelled in kilometers and p(x) represent the total fare polynomial.

a) Write down the expression for the linear polynomial p(x) representing the total fare.
b) If a passenger paid a total fare of ₹150, calculate the exact distance they travelled by solving the polynomial equation.

Question 8:

Consider the linear polynomial expression given by $f(x) = 3x - 9$.

a) Find the algebraic 'zero' of this polynomial by setting $f(x) = 0$.
b) Plot the equation $y = 3x - 9$ on a Cartesian coordinate graph plane. Where exactly does it meet the horizontal axis?

Question 9:

A walking ramp is designed such that its elevation profile follows the linear polynomial equation $y = mx + 2$. The ramp is anchored to the ground at the horizontal coordinate point (-4, 0).

a) Substitute the anchor point into the linear equation to determine the exact value of the slope parameter m.

Question 10:

Two separate temperature tracking profiles are represented by the linear functions $A(x) = 2x + 5$ and $B(x) = 2x - 3$.

Find the y-intercept (where $x = 0$) for both polynomials

Plot these lines on graph.

Question 11:

A teacher challenges a student with a mystery linear polynomial $q(x) = kx + 12$, where k is an unknown constant value. The teacher provides a single clue: the value of the polynomial becomes exactly zero when the input variable x is equal to -3.

Set up the appropriate algebraic equation using the clue and solve for the unknown value of k.

Rewrite the complete polynomial with the correct value of k and calculate the value of the polynomial when the input is $x = 5$.

Subject: Social Science

Assertion & Reason Practice Worksheet

Read each Assertion (A) and Reason (R) carefully and choose the correct answer.

Options:

a) Both A and R are true and R is the correct explanation of A

b) Both A and R are true but R is not the correct explanation of A

c) A is true but R is false

d) A is false but R is true

Assertion & Reason Questions

1.Assertion (A): Social Science helps us understand society and human behaviour.
Reason (R): Social Science studies relationships, institutions, and social life.

2.Assertion (A): Geography studies only maps and directions.
Reason (R): Geography also studies climate, resources, and human activities.

3.Assertion (A): Inclusivity means giving equal respect and opportunities to all people.
Reason (R): Inclusivity removes barriers caused by discrimination and inequality.

4.Assertion (A): Democracy is called the government of the people.
Reason (R): In democracy, rulers are elected by the citizens.

5.Assertion (A): Universal adult franchise means only educated people can vote.
Reason (R): Every adult citizen has the right to vote regardless of caste, religion, or gender.

6.Assertion (A): In a parliamentary democracy, the executive is responsible to the legislature.
Reason (R): The Prime Minister and Council of Ministers are answerable to Parliament.

7.Assertion (A): Dictatorship supports freedom of speech and public participation.
Reason (R): In dictatorship, power remains concentrated in one person or a small group.

8.Assertion (A): Scarcity arises because resources are limited while wants are unlimited.
Reason (R): Human wants continue to increase with time.

9.Assertion (A): Opportunity cost is the value of the next best alternative given up.
Reason (R): Every choice involves sacrificing another option.

10.Assertion (A): India follows a mixed economy system.
Reason (R): Both government and private sectors participate in economic activities.

Subject : Information Technology

1.Prepare digital poster or collage to show the role of ICT in daily life OR Make a poster various ICT tools

2. Make a assignment file with Learning Outcome, Objective, Task, Solution of the topic on practical file

A)What is Communication Cycle
B)Role Of ICT In Daily Life
C) What is Self Management? Difference between interests and abilities
D)Interactive White Boards (Smart Board)
E)Use Of Mouse and its Operation
F) Identify different types of keys, draw keyboard and home keys .
G) Draw Your Time table
H) Identify the user interface of a typing tutor, practice typing text in typing tutor software and interpret the results, work in the lesson editor, calculate typing speed, and practice to improve typing using typing tutor software.

Subject: Science

Biology (Chapter: Cell – The Building Blocks of Life)

1. A cell suddenly loses its plasma membrane but all other organelles remain intact.
Predict what will happen to the cell. Give scientific reasons.

2. Desert plants possess large vacuoles in their cells.
Explain how this adaptation helps them survive in extreme conditions.

3. A scientist places a living plant cell in:
i) pure water ii) concentrated sugar solution
Predict the changes in the cell in both situations with proper reasoning.

4. "Division of labour exists even at the cellular level."
Justify this statement using examples of different cell organelles.

5. Why can't a large organism like an elephant survive with only one giant cell instead of many small cells?

6. Case Study: Sports and Energy

An athlete requires more energy during a race.

Questions:

a) Which cell organelle will be highly active?

b) Why is it called the powerhouse of the cell?

c) Predict what may happen if this organelle becomes defective.

7. If lysosomes burst inside a cell accidentally, what consequences may occur?

How is this process useful in multicellular organisms?

8. A cell has:

i) no nucleus ii) no membrane-bound organelle iii) genetic material scattered in cytoplasm

Identify the type of cell and justify your answer.

9.Which would survive better under water scarcity:

i)a cell with large vacuole ii) a cell with very small vacuole

Explain scientifically.

10. Scientists are trying to create artificial cells in laboratories.

What benefits and ethical concerns may arise from this technology?

11. **Assertion–Reason Questions**

Choose: a) Both A and R are true and R is correct explanation

b) Both A and R are true but R is not correct explanation

c) A is true but R is false

d) A is false but R is true

(i) Assertion (A): Plant cells are more rigid than animal cells.

Reason (R): Plant cells possess a cell wall made of cellulose.

(ii) Assertion (A): Mitochondria are abundant in muscle cells.

Reason (R): Muscle cells require large amounts of energy.

(iii) Assertion (A): Diffusion occurs faster in gases than liquids.

Reason (R): Gas particles move freely at higher speed.

12. Case Study: Food Preservation

A shopkeeper preserves mango pickle using excess salt and oil.

Questions:

a) How does salt affect microbial cells?

b) Which cellular process is involved?

c) Why do microbes fail to grow in such conditions?

13. Why are mitochondria and chloroplast called semi-autonomous organelles?

14. Draw labelled diagrams of all cell organelles with their functions.

15. Why red blood cells lack nucleus in humans?

Chemistry (Chapter: Exploring Mixtures and their Separation)

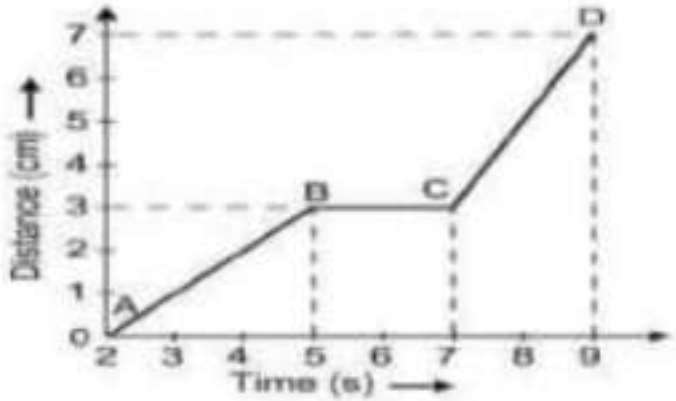
1. A student mixes sugar and sand in water. Suggest a sequence of separation methods to obtain pure sugar and pure sand separately. Explain why each method is used.
2. Two transparent liquids look exactly the same. One is pure water and the other is a salt solution. Without tasting them, how can you identify each? Explain the scientific principle involved.
3. Why is crystallisation considered a better method than evaporation for obtaining pure solids? Explain using an example from daily life.
4. A mixture contains iron filings, sand and camphor. Design a stepwise method to separate all three substances and justify the order of separation.
5. During summer, more sugar dissolves in hot milk than in cold milk. Explain this observation using the concept of solubility and particle motion.
6. A chemist wants to separate acetone and water from their mixture. Why is distillation suitable for this purpose? What property of liquids is used here?
7. Explain why colloids show the Tyndall effect while true solutions do not. Relate your answer to particle size.
8. Why suspensions are considered unstable mixtures while colloids are stable? Compare their particle behaviour.
9. Sea water contains dissolved salts, sand particles and microorganisms. Design a process to obtain clean drinking water as well as salt from it.
10. Blood is called a colloid. Predict what would happen if blood behaved like a suspension instead of a colloid inside the human body.
11. A student dissolves 25 g of common salt in 175 g of water. Calculate the mass by mass percentage (% m/m) of the solution.
12. A sugar solution contains 15 g of sugar dissolved in 300 mL of solution. Calculate the mass by volume percentage (% m/v) of the solution.
13. A mixture contains 40 mL alcohol and 160 mL water. Calculate the volume by volume percentage (% v/v) of alcohol in the mixture.
14. The solubility of potassium nitrate at 40°C is 62 g per 100 g of water. Find the maximum amount of potassium nitrate that can dissolve in 250 g of water at 40°C.
15. Student A dissolves 20 g sugar in 80 g water, while Student B dissolves 35 g sugar in 140 g water. Calculate the mass percentage of both solutions and identify which solution is more concentrated.

Physics (Chapter: Describing Motion around us)

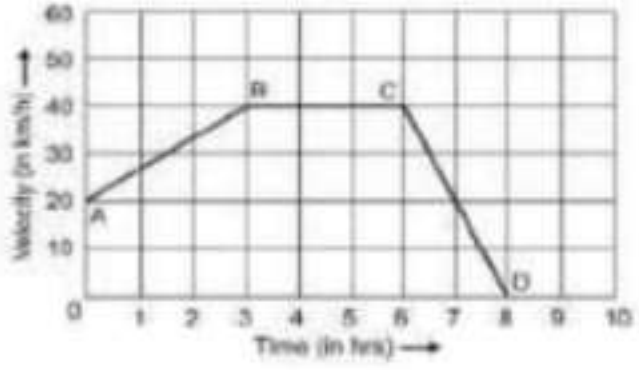
1. Arrange the following speeds in increasing order (keeping the least speed first) :
    a.) An athlete running with a speed of 10 m/s.
    b.) A bicycle moving with a speed of 200 m/min.
    c.) A scooter moving with a speed of 30 km/h.
2. (a) Write the formula for acceleration. Give the meaning of each symbol which occurs in it.

(b) A train starting from Railway Station attains a speed of 21 m/s in one minute. Find its acceleration.

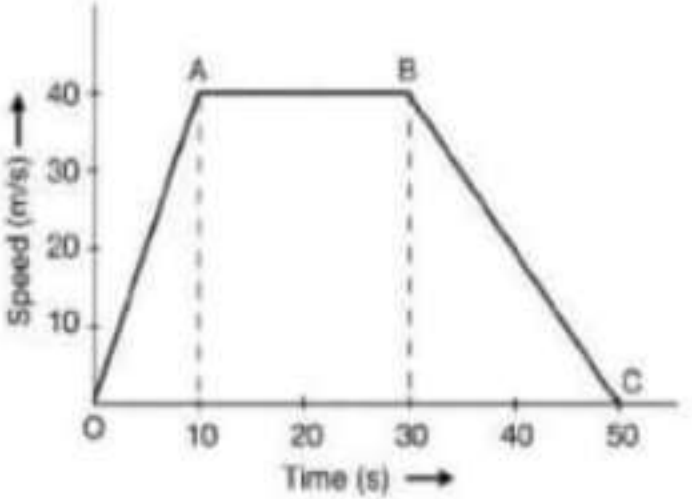
3. What do the following measure in a car? (a) speedometer (b) Odometer
4. (a) What is the difference between 'distance travelled' by a body and its 'displacement'? Explain with the help of a diagram.
   (b) An ant travels a distance of 8 cm from P to Q and then moves a distance of 6 cm at right angles to PQ. Find its resultant displacement.
5. A train travels the first 15 km at a uniform speed of 30 km/h; the next 75 km at a uniform speed of 50 km/h; and the last 10 km at a uniform speed of 20 km/h. Calculate the average speed for the entire train journey.
6. The distance between Delhi and Agra is 200 km. A train travels the first 100 km at a speed of 50 km/h. How fast must the train travel the next 100 km, so as to average 70 km/h for the whole journey?
7. (a) What is meant by the term 'acceleration'? State the SI unit of acceleration.
   (b) Define the term 'uniform acceleration'. Give one example of a uniformly accelerated motion.
8. The graph given alongside shows the positions of a body at different times. Calculate the speed of the body as it moves from:
   (i) A to B,
   (ii) B to C, and
   (iii) C to D.



9. Given alongside is the velocity-time graph for a moving body :
   Find : (i) Velocity of the body at point C.
   (ii) Acceleration acting on the body between A and B.
   (iii) Acceleration acting on the body between B and C.



10. Study the speed-time graph of a car given alongside and answerthe following questions:
    (i) What type of motion is represented by OA?
    (ii) What type of motion is represented by AB?
    (iii) What type of motion is represented by BC?
    (iv) What is the acceleration of car from O to A?
    (v) What is the acceleration of car from A to B?
    (vi) What is the retardation of car from B to C?



11. Show by means of graphical method that:

$$v = u + at$$
$$s = ut + \frac{1}{2}at^2$$
$$v^2 - u^2 = 2as$$

    where the symbols have their usual meanings.
12. A cheetah starts from rest, and accelerates at 2 m/s2 for 10 seconds. Calculate:
    (a) the final velocity
    (b) the distance travelled.
13. A motorcycle moving with a speed of 5 m/s is subjected to an acceleration of 0.2 m/s^2. Calculate the speed of the motorcycle after 10 seconds, and the distance travelled in this time.
14. A bus running at a speed of 18 km/h is stopped in 2.5 seconds by applying brakes. Calculate the retardation produced.
15. A body is moving uniformly in a straight line with a velocity of 5 m/s. Find graphically the distance covered by it in 5seconds.

Subject: PAT

Chart work:

Make a chart on the following topic

Use sketches, glitters and make the chart creative

- **Split chart: Proteins, Carbs, Fats vs Vitamins, Minerals**
- **Add pictures of foods rich in each + daily requirement for teens**

A4 sheet:

Make a poster for National sports day which is to be held on 29 august

Also mention the person to whom it is honoured (Major Dhyan Chand)

Use pictures also

You can also draw to make it more attractive

File work:

Make a file on difference between software and hardware

Differentiate between them using factors like

Name purpose

Also paste pictures

(File should consist of at least 5page)

ਛੁੱਟੀਆਂ ਦਾ ਕੰਮ

ਜਮਾਤ- ਨੌਵੀਂ ਵਿਸ਼ਾ- ਪੰਜਾਬੀ

1. ਜਨਮ ਦਿਨ ਕਹਾਣੀ

ਕਹਾਣੀ "ਜਨਮ ਦਿਨ" 'ਤੇ ਆਧਾਰਿਤ ਕੁਝ ਮਹੱਤਵਪੂਰਨ ਯੋਗਤਾ-ਆਧਾਰਿਤ ਪ੍ਰਸ਼ਨ (Competency-Based Questions) ਹੇਠਾਂ ਦਿੱਤੇ ਗਏ ਹਨ। ਇਹ ਪ੍ਰਸ਼ਨ ਰਟਾ-ਰਟਾਇਆ ਜਵਾਬ ਲੱਭਣ ਦੀ ਬਜਾਏ ਵਿਦਿਆਰਥੀ ਦੀ ਸੋਚਣ ਸਮਰੱਥਾ, ਕਹਾਣੀ ਦੇ ਡੂੰਘੇ ਅਰਥਾਂ ਦੀ ਸਮਝ ਅਤੇ ਅਸਲ ਜ਼ਿੰਦਗੀ ਨਾਲ ਉਸਦੇ ਸਬੰਧ ਨੂੰ ਪਰਖਣ ਲਈ ਤਿਆਰ ਕੀਤੇ ਗਏ ਹਨ:

 # ਉੱਚ-ਪੱਧਰੀ ਸੋਚ ਵਾਲੇ ਪ੍ਰਸ਼ਨ (Higher-Order Thinking - HOTS)

1. ਪ੍ਰਸ਼ਨ: ਕਹਾਣੀ ਵਿੱਚ ਮਾਪਿਆਂ ਦੀ 'ਆਰਥਿਕ ਬੇਵੱਸੀ' ਵਿਚਕਾਰ ਜੋ ਟਕਰਾਅ ਦਿਖਾਇਆ ਗਿਆ ਹੈ, ਉਹ ਖੰਨ ਦੇ ਦੌਰ ਵਿੱਚ ਵੀ ਕਿੰਨਾ ਪ੍ਰਸੰਗਿਕ (Relevant) ਹੈ? ਉਦਾਹਰਨ ਸਹਿਤ ਸਪਸ਼ਟ ਕਰੋ।

2. ਪ੍ਰਸ਼ਨ: "ਜੁਗਲ ਪ੍ਰਸਾਦ ਇਮਾਨਦਾਰ ਹੈ, ਪਰ ਉਸਦੀ ਇਮਾਨਦਾਰੀ ਹੀ ਉਸਦੀ ਆਰਥਿਕ ਤੰਗੀ ਦਾ ਕਾਰਨ ਬਣਦੀ ਹੈ।" ਜੇਕਰ ਤੁਸੀਂ ਜੁਗਲ ਪ੍ਰਸਾਦ ਦੀ ਜਗ੍ਹਾ ਹੁੰਦੇ, ਤਾਂ ਕੀ ਕਰਦੇ? ਆਪਣੇ ਵਿਚਾਰ ਪੇਸ਼ ਕਰੋ।

 # ਵਿਸ਼ਲੇਸ਼ਣਾਤਮਕ ਪ੍ਰਸ਼ਨ (Analytical Questions)

3. ਪ੍ਰਸ਼ਨ: ਕਹਾਣੀ ਦੇ ਅੰਤ ਵਿੱਚ ਜੁਗਲ ਪ੍ਰਸਾਦ ਦੇ ਮਨ ਵਿੱਚ ਪੈਦਾ ਹੋਇਆ ਗੁੱਸਾ ਅਤੇ ਬੇਵੱਸੀ, ਕੀ ਸਿਰਫ਼ ਉਸਦੀ ਗਰੀਬੀ ਕਰਕੇ ਹੈ ਜਾਂ ਸਮਾਜਿਕ ਪ੍ਰਬੰਧ ਦੀ ਨਾਕਾਮੀ ਕਰਕੇ? ਤਰਕ ਸਹਿਤ ਉੱਤਰ ਦਿਓ।

 # ਮੁੱਲ-ਆਧਾਰਿਤ ਅਤੇ ਵਿਵਹਾਰਕ ਪ੍ਰਸ਼ਨ (Value-Based & Practical Questions)

4. ਪ੍ਰਸ਼ਨ: ਅੱਜ-ਕੱਲ੍ਹ ਸਕੂਲਾਂ ਵਿੱਚ ਜਨਮ ਦਿਨਾਂ 'ਤੇ ਮਹਿੰਗੀ ਤੋਹਫ਼ੇ ਜਾਂ ਪਾਰਟੀਆਂ ਦੇਣ ਦਾ ਰੁਝਾਨ ਵਧ ਰਿਹਾ ਹੈ। ਇਸ ਨਾਲ ਗਰੀਬ ਜਾਂ ਮੱਧਵਰਗੀ ਪਰਿਵਾਰਾਂ ਦੇ ਬੱਚਿਆਂ ਦੇ ਮਨ 'ਤੇ ਕੀ ਪ੍ਰਭਾਵ ਪੈਂਦਾ ਹੋਵੇਗਾ? ਇੱਕ ਜ਼ਿੰਮੇਵਾਰ ਵਿਦਿਆਰਥੀ ਵਜੋਂ ਤੁਸੀਂ ਇਸ ਸਮੱਸਿਆ ਦਾ ਕੀ ਹੱਲ ਸੁਝਾਓਗੇ?

 # ਕੇਸ ਸਟੱਡੀ / ਸਥਿਤੀ-ਆਧਾਰਿਤ ਪ੍ਰਸ਼ਨ (Situation-Based Questions)

5. ਪ੍ਰਸ਼ਨ: ਮੰਨ ਲਓ ਤੁਸੀਂ ਜੋਤੀ ਦੇ ਜਮਾਤੀ (Classmate) ਹੋ ਅਤੇ ਤੁਹਾਨੂੰ ਪਤਾ ਲੱਗਦਾ ਹੈ ਕਿ ਉਹ ਆਪਣੀ ਆਰਥਿਕ ਹਾਲਤ ਕਰਕੇ ਸਕੂਲ ਵਿੱਚ ਲੀਵਾਂ ਮਹਿਸੂਸ ਕਰ ਰਿਹਾ ਹੈ। ਬਾਲ ਮਨੋਵਿਗਿਆਨ ਨੂੰ ਧਿਆਨ ਵਿੱਚ ਰੱਖਦੇ ਹੋਏ, ਤੁਸੀਂ ਉਸਦਾ ਆਤਮ-ਵਿਸ਼ਵਾਸ ਵਧਾਉਣ ਲਈ ਕੀ ਕਦਮ ਚੁੱਕੋਗੇ?

2. ਵਹਿਮੀ ਤਾਇਆ ਨਿਬੰਧ

ਮੁਫ਼ਤ ਇੰਖ ਦੁਆਰਾ ਲਿਖੇ ਹਾਸਰਸ ਲੇਖ "ਵਹਿਮੀ ਤਾਇਆ" 'ਤੇ ਆਧਾਰਿਤ ਕੁਝ ਮਹੱਤਵਪੂਰਨ ਯੋਗਤਾ-ਆਧਾਰਿਤ ਪ੍ਰਸ਼ਨ (Competency-Based Questions) ਹੇਠਾਂ ਦਿੱਤੇ ਗਏ ਹਨ। ਇਹ ਪ੍ਰਸ਼ਨ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਆਲੋਚਨਾਤਮਕ ਸੋਚ (Critical Thinking) ਅਤੇ ਲੇਖ ਦੇ ਡੂੰਘੇ ਵਿਖੇਪ ਨੂੰ ਸਮਝਣ ਦੀ ਸਮਰੱਥਾ ਨੂੰ ਪਰਖਣ ਲਈ ਤਿਆਰ ਕੀਤੇ ਗਏ ਹਨ:

#ਉੱਚ-ਪੱਧਰੀ ਸੋਚ ਵਾਲੇ ਪ੍ਰਸ਼ਨ (Higher-Order Thinking - HOTS)

1. ਪ੍ਰਸ਼ਨ: "ਵਹਿਮ ਮਨੁੱਖ ਦੀ ਮਾਨਸਿਕ ਕੁਸ਼ਲਤਾ ਦਾ ਪ੍ਰਤੀਕ ਹਨ।" ਤਾਇਆ ਮਲਸਾ ਰਾਮ ਦੇ ਪਾਤਰ ਨੂੰ ਮੁੱਖ ਰੱਖਦੇ ਹੋਏ ਸਪਸ਼ਟ ਕਰੋ ਕਿ ਵਹਿਮ-ਭਰਮ ਕਾਰਨ ਬੰਦੇ ਦੀ ਆਪਣੀ ਸੋਚਣ-ਸਮਝਣ ਅਤੇ ਫੈਸਲਾ ਲੈਣ ਦੀ ਆਜ਼ਾਦੀ ਕਿਸ ਤਰ੍ਹਾਂ ਖਤਮ ਹੋ ਜਾਂਦੀ ਹੈ?

2. ਪ੍ਰਸ਼ਨ: ਲੇਖ ਵਿੱਚ ਦਿਖਾਇਆ ਗਿਆ ਹੈ ਕਿ ਤਾਇਆ ਦੂਜਿਆਂ ਦੀਆਂ ਸਿਆਣੀਆਂ ਦੇ ਲੰਛਣ ਆਪਣੇ ਅੰਦਰ ਮਹਿਸੂਸ ਕਰਨ ਲੱਗ ਪੈਂਦਾ ਹੈ। ਅਜੋਕੇ ਸੋਸ਼ਲ ਮੀਡੀਆ ਅਤੇ ਇੰਟਰਨੈੱਟ ਦੇ ਦੌਰ ਵਿੱਚ, ਜਿੱਥੇ ਲੋਕ ਗੂਗਲ (Google) 'ਤੇ ਲੰਛਣ ਪੜ੍ਹ ਕੇ ਖੁਦ ਨੂੰ ਬਿਮਾਰ ਮੰਨ ਲੈਂਦੇ ਹਨ, ਇਹ ਲੇਖ ਕਿਵੇਂ ਪ੍ਰਾਸੰਗਿਕ (Relevant) ਪ੍ਰਤੀਤ ਹੁੰਦਾ ਹੈ? ਵਿਸ਼ਲੇਸ਼ਣ ਕਰੋ

 # ਵਿਸ਼ਲੇਸ਼ਣਾਤਮਕ ਪ੍ਰਸ਼ਨ (Analytical Questions)

3. ਪ੍ਰਸ਼ਨ: ਤਾਏ ਦੇ ਵਹਿਮਾਂ ਦਾ ਅਸਰ ਸਿਰਫ਼ ਉਸਦੀ ਆਪਣੀ ਜ਼ਿੰਦਗੀ 'ਤੇ ਨਹੀਂ, ਬਲਕਿ ਉਸਦੇ ਪਰਿਵਾਰ ਅਤੇ ਆਸ-ਪਾਸ ਦੇ ਲੋਕਾਂ 'ਤੇ ਵੀ ਪੈਂਦਾ ਹੈ। ਲੇਖ ਵਿੱਚੋਂ ਉਦਾਹਰਨਾਂ ਦੇ ਕੇ ਸਪਸ਼ਟ ਕਰੋ ਕਿ ਇੱਕ ਵਿਅਕਤੀ ਦਾ ਅੰਧਵਿਸ਼ਵਾਸ ਪੂਰੇ ਸਮਾਜ ਨੂੰ ਕਿਸ ਤਰ੍ਹਾਂ ਪ੍ਰਭਾਵਿਤ ਕਰਦਾ ਹੈ?

 # ਮੁੱਲ-ਆਧਾਰਿਤ ਅਤੇ ਵਿਵਹਾਰਕ ਪ੍ਰਸ਼ਨ (Value-Based & Practical Questions)

4. ਪ੍ਰਸ਼ਨ: ਤਾਇਆ ਮਲਸਾ ਰਾਮ ਮੁਤਾਬਕ ਪੰਖੇ ਖੁਦ ਇਨਸਾਨ ਨਹੀਂ ਹੈ, ਉਹ ਸਿਰਫ਼ ਆਪਣੀ ਮਾਨਸਿਕਤਾ ਦਾ ਸ਼ਿਕਾਰ ਹੈ। ਅਜਿਹੇ ਵਹਿਮੀ ਲੋਕਾਂ ਪ੍ਰਤੀ ਸਾਡਾ ਰਵੱਈਆ ਨਫ਼ਰਤ ਜਾਂ ਮਜ਼ਾਕ ਉਡਾਉਣ ਵਾਲਾ ਹੋਣਾ ਚਾਹੀਦਾ ਹੈ ਜਾਂ ਹਮਦਰਦੀ ਵਾਲਾ? ਆਪਣੇ ਵਿਚਾਰ ਪੇਸ਼ ਕਰੋ।

 # ਕੇਸ ਸਟੱਡੀ / ਸਥਿਤੀ-ਆਧਾਰਿਤ ਪ੍ਰਸ਼ਨ (Situation-Based Questions)

5. ਪ੍ਰਸ਼ਨ: ਮੰਨ ਲਓ ਤੁਸੀਂ ਇੱਕ ਸਕੂਲ ਦੇ ਵਿਗਿਆਨ ਕਲੱਬ (Science Club) ਦੇ ਪ੍ਰਧਾਨ ਹੋ ਅਤੇ ਤੁਹਾਡੇ ਪਿੰਡ/ਸ਼ਹਿਰ ਵਿੱਚ ਲੋਕ ਵਹਿਮਾਂ-ਭਰਮਾਂ ਅਤੇ ਝਾੜ-ਫੂਕ ਦੇ ਅੰਧਵਿਸ਼ਵਾਸ ਵਿੱਚ ਬਹੁਤ ਫਸੇ ਹੋਏ ਹਨ। 'ਵਹਿਮੀ ਤਾਇਆ' ਲੇਖ ਤੋਂ ਸਿੱਖਿਆ ਲੈਂਦੇ ਹੋਏ, ਤੁਸੀਂ ਲੋਕਾਂ ਨੂੰ ਜਾਗਰੂਕ ਕਰਨ ਲਈ ਕਿਸ ਤਰ੍ਹਾਂ ਦੀ ਮੁਹਿੰਮ ਜਾਂ ਨੁੱਕੜ ਨਾਟਕ ਦਾ ਆਯੋਜਨ ਕਰੋਗੇ?

ग्रीष्मकालीन अवकाश गृहकार्य

विषय : हिंदी **कक्षा : 9वीं** **योग्यता-आधारित प्रश्न**

उत्तर हेतु अनुमानित शब्द संख्या :
प्रश्न संख्या 1-6 (50-60 शब्द) | प्रश्न संख्या 9-10 (100-120 शब्द)

1 स्वतंत्रता सहज में नहीं मिलती, उसके लिए बार-बार संघर्ष करना पड़ता है। 'दो बैलों की कथा' के इस केंद्रीय भाव को हीरा और मोती के संघर्षों के आलोक में स्पष्ट कीजिए तथा बताइए कि आज के दौर में एक जागरूक नागरिक के लिए स्वतंत्रता का क्या मायने होने चाहिए?

2 समाज में 'शोषण' और 'सहानुभूति' को अक्सर बेबसूरी का पर्याय मान लिया जाता है। प्रेमचंद ने गधे और बैलों के माध्यम से इस रूढ़िवादी सोच पर किस प्रकार प्रहार किया है? क्या आप मानते हैं कि आज के प्रतिस्पर्धी (Competitive) युग में आर्थिक सीधापन एक कमजोरी है? तर्कसहित उत्तर दीजिए।

3 'प्रभु जी तुम चंदन हम पानी' और 'जैसे चितवत चंद चकोर'—इन पंक्तियों के आधार पर स्पष्ट कीजिए कि रैदास की भक्ति में 'अहंकार का विसर्जन' (Surrender of Ego) क्यों अनिवार्य माना गया है? व्यावहारिक जीवन में अहंकार मुक्त होने से व्यक्ति के व्यक्तित्व में क्या सकारात्मक बदलाव आते हैं?

4 संत रैदास ने अपने पदों में किसी बाहरी कर्मकांड, तीर्थयात्रा या दिखावे का समर्थन नहीं किया, बल्कि मन की पवित्रता ('मन चंगा तो कठौती में गंगा') पर बल दिया है। आज के समय में जहाँ धर्म और आध्यात्मिकता के नाम पर दिखावा और बाजारीकरण बढ़ गया है, रैदास की यह 'आंतरिक भक्ति' और सहज जीवन-शैली युवा पीढ़ी को किस प्रकार एक सही और नैतिक मार्ग दिखा सकती है?

5 विपरीत परिस्थितियों में 'क्रोध' और 'धैर्य' के प्रभाव की तुलना कीजिए। 'राम-लक्ष्मण-परशुराम संवाद' पाठ के आधार पर स्पष्ट कीजिए कि जहाँ एक ओर लक्ष्मण के व्यंग्य और परशुराम का क्रोध स्थिति को बिगाड़ते हैं, वहीं श्री राम का व्यवहार 'संकट प्रबंधन' (Crisis Management) का उत्कृष्ट उदाहरण है। अपने जीवन की किसी घटना से जोड़ते हुए इसका उत्तर लिखिए।

6 'दो बैलों की कथा' के 'हीरा' और 'राम-लक्ष्मण-परशुराम संवाद' के 'श्री राम' के चरित्र में एक गहरी समानता दिखाई देती है—दोनों ही मर्यादा, नीति और धैर्य के पक्षधर हैं। इसके विपरीत 'मोती' और 'लक्ष्मण' अन्याय के खिलाफ तुरंत उग्र प्रतिक्रिया देते हैं। आपके विचार से समाज को सुचारु रूप से चलाने के लिए इन दोनों प्रवृत्तियों (धैर्य और तात्कालिक विरोध) में से किसकी आवश्यकता अधिक है? संतुलित विचार प्रस्तुत कीजिए।
(अंत-विषयी एवं तुलनात्मक प्रश्न)

7-8 **रचनात्मक गतिविधि**

"खामोशी" तथा "ऐसी भी बातें होती हैं (लता मंगेशकर से साक्षात्कार)"
अध्यायों के लिए A-4 शीट पर उनका संक्षिप्त अवधारणा नक्शा (Concept Map) बनाइए। आपके नक्शे में पाठ के मुख्य पात्र, उनका स्वभाव, मुख्य घटनाएँ और पाठ से मिलने वाली सीख स्पष्ट रूप से दिखनी चाहिए।

9 **विषय (पर्यावरण और हमारी जीवनशैली):**
"प्रकृति हमें सब कुछ देती है, लेकिन मानव अपनी सुख-सुविधाओं के लिए उसका अंधाधुंध दोहन कर रहा है। प्रकृति के प्रति हमारी इस संवेदनहीनता के क्या परिणाम हो सकते हैं और एक छात्र के रूप में आप पर्यावरण संरक्षण में क्या योगदान दे सकते हैं?"

10 **विषय (इंटरनेट और एकाकीपन):**
"इंटरनेट ने दुनिया को करीब तो ला दिया है, लेकिन इसने इंसानों के बीच की सामाजिक भागीदारी को कम कर दिया है। 'आभासी मित्र (Virtual Friends)' बनाम 'वास्तविक मित्र' के संदर्भ में आज के युवाओं में बढ़ते अकेलेपन पर एक तार्किक अनुच्छेद लिखिए।"

विशेष निर्देश

- सभी प्रश्नों के उत्तर निर्धारित शब्द सीमा में लिखिए।
- उत्तर अपने विचारों के आधार पर लिखें।
- लेखन साफ, सुंदर एवं व्याकरणिक दृष्टि से शुद्ध होना चाहिए।
- रचनात्मक कार्य उचित एवं आकर्षक ढंग से प्रस्तुत करें।
- अध्यायानुसार चित्र, चार्ट्स एवं मानचित्र का प्रयोग करें।

इकाई परीक्षा (Periodic Test) हेतु दिए गए मार्गदर्शन की नियमित दोहराई करें।

M.D. DAYANAND MODEL SCHOOL

NAKODAR

Summer Vacation Assignments

Session 2026-27

CLASS 10th

"Vacations are not just a break from books—they're a way to learn differently, from life itself."

"Summer is a time to relax, reflect, and recharge for the journey ahead."

INSTRUCTIONS

- Revision of syllabus UT-1
- Keep your Assignment ready.

For Academic Enrichment: -

1. **Read Regularly**: Choose books that interest you and read at least 20–30 minutes daily.
2. **Practice Skills**: Revise important topics in subjects like math, science, or languages to stay sharp.
3. **Explore New Topics**: Try learning something new—coding, art, a new language, or music.

💻 **Limit Screen Time**

Avoid excessive use of mobile phones, video games, and social media.

🧠 **Healthy Mind, Healthy Body**

1. **Stay Active**: Do physical activities like walking, cycling, yoga, or playing outside.
2. **Eat Healthy**: Maintain a balanced diet—avoid too much junk food
3. **Maintain Hygiene**: Wash your hands regularly and keep your surroundings clean.

English

Chapter: The Dear Departed (Drama) By Stanley Houghton
Art-Integrated Project

Project Title: "Family Values and Materialism in The Dear Departed"

Part A: Cover Page
Design an attractive cover page with: Project Title, Student's Name, Class & Section, Roll Number, and School Name

Part B: Character Portrait Gallery
Create colourful portraits of the main characters:

- Mrs. Slater
- Mrs. Jordan
- Abel Merryweather
- Henry Slater
- Ben Jordan

And write 3–4 lines describing each character below the portrait.

Part C: Comic Strip
Create a 4–5 panel comic strip showing the important events of the Drama:

- -Family believes Abel is dead.
- -Discussion about his belongings
- -Taking the grandfather's clock
- -Abel wakes up.
- -Family's embarrassment
- -Abel's final decision

Part D: Family Tree Poster
Prepare a creative family tree showing the relationships among all characters.

Note: Students will submit the written project and give an oral presentation in class after the summer vacation.

Rubrics (25 Marks)

Criteria	Marks
Content Knowledge	10
Creativity	5
Presentation	5
Expression & Clarity	5
Total Marks	**25**

Punjabi

ਛੁੱਟੀਆਂ ਦਾ ਕੰਮ

ਜਮਾਤ- ਦੱਸਵੀਂ ਵਿਸ਼ਾ- ਪੰਜਾਬੀ

1. ਕੁਲਫ਼ੀ ਕਹਾਣੀ

ਸੁਜਾਨ ਸਿੰਘ ਦੀ ਕਹਾਣੀ "ਕੁਲਫ਼ੀ" 'ਤੇ ਆਧਾਰਿਤ ਕੁਝ ਮਹੱਤਵਪੂਰਨ ਕੰਪੀਟੰਸੀ-ਆਧਾਰਿਤ ਪ੍ਰਸ਼ਨ (Competency-Based Questions) ਹੇਠਾਂ ਦਿੱਤੇ ਗਏ ਹਨ। ਇਹ ਪ੍ਰਸ਼ਨ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਅਲੋਚਨਾਤਮਕ ਸੋਚ, ਬਾਲ-ਮਨੋਵਿਗਿਆਨ ਦੀ ਸਮਝ ਅਤੇ ਸਮਾਜਿਕ-ਆਰਥਿਕ ਸਥਿਤੀਆਂ ਦਾ ਵਿਸ਼ਲੇਸ਼ਣ ਕਰਨ ਦੀ ਸਮਰੱਥਾ ਨੂੰ ਪਰਖਣ ਲਈ ਤਿਆਰ ਕੀਤੇ ਗਏ ਹਨ:

ੳ. ਉੱਚ-ਪੱਧਰੀ ਸੋਚ ਵਾਲੇ ਪ੍ਰਸ਼ਨ (Higher-Order Thinking - HOTS)

1. ਪ੍ਰਸ਼ਨ: "ਲੈਅਜ ਸਾਰੀ ਰਾਤ ਜਾਗਦਾ ਰਿਹਾ ਅਤੇ ਦੇਰ ਨਾਲ ਘਰ ਮੁੜਿਆ ਤਾਂ ਜੋ ਉਸਨੂੰ ਕਾਕੇ ਦੇ ਸਵਾਲਾਂ ਦਾ ਸਾਹਮਣਾ ਨਾ ਕਰਨਾ ਪਵੇ।" ਇੱਕ ਨੈਕਰੋਪੋਲਾ ਪਿਤਾ ਦੀ ਇਸ ਮਾਨਸਿਕ ਪੀੜ ਅਤੇ ਲਾਚਾਰੀ ਦਾ ਅਜੋਕੇ ਮਹਿੰਗਾਈ ਦੇ ਦੌਰ ਨਾਲ ਸਬੰਧ ਜੋੜਦਿਆਂ ਵਿਸ਼ਲੇਸ਼ਣ ਕਰੋ।

ਅ. ਵਿਸ਼ਲੇਸ਼ਣਾਤਮਕ ਪ੍ਰਸ਼ਨ (Analytical Questions)

2. ਪ੍ਰਸ਼ਨ: ਕਹਾਣੀ ਵਿੱਚ ਲੈਅਜ ਆਪਣੀ ਤਨਖ਼ਾਹ ਵਧਾਉਣ ਲਈ ਮਾਲਕ ਦੇ ਸਾਹਮਣੇ ਮੰਗ ਰੱਖਣ ਤੋਂ ਕਿਉਂ ਡਰਦਾ ਹੈ? ਇਹ ਸਥਿਤੀ ਮਜ਼ਦੂਰ/ਮੁਲਾਜ਼ਮ ਵਰਗ ਦੀ ਕਿਸ ਮਜਬੂਰੀ ਅਤੇ ਸੋਸ਼ਣ ਨੂੰ ਬਿਆਨ ਕਰਦੀ ਹੈ?

ੲ. ਮੁੱਲ-ਆਧਾਰਿਤ ਅਤੇ ਵਿਵਹਾਰਕ ਪ੍ਰਸ਼ਨ (Value-Based & Practical Questions)

3. ਪ੍ਰਸ਼ਨ: ਬੱਚੇ ਅਮੀਰੀ-ਗਰੀਬੀ ਦੇ ਭੇਦਭਾਵ ਤੋਂ ਅਣਜਾਣ ਹੁੰਦੇ ਹਨ, ਪਰ ਸਮਾਜਿਕ ਪਰਿਸਥਿਤੀਆਂ ਉਨ੍ਹਾਂ ਦੇ ਮਾਸੂਮ ਮਨਾਂ 'ਤੇ ਡੂੰਘਾ ਅਸਰ ਪਾਉਂਦੀਆਂ ਹਨ। ਕਾਕੇ ਦੇ ਪਾਤਰ ਰਾਹੀਂ ਬਾਲ-ਮਨੋਵਿਗਿਆਨ (Child Psychology) ਤੇ ਪੈਣ ਵਾਲੇ ਅਜਿਹੇ ਪ੍ਰਭਾਵਾਂ ਬਾਰੇ ਆਪਣੇ ਵਿਚਾਰ ਲਿਖੋ।

4. ਪ੍ਰਸ਼ਨ: ਜੇਕਰ ਤੁਸੀਂ ਲੈਅਜ (ਪਿਤਾ) ਦੇ ਦੋਸਤ ਹੁੰਦੇ ਅਤੇ ਤੁਹਾਨੂੰ ਉਸਦੀ ਇਸ ਆਰਥਿਕ ਅਤੇ ਮਾਨਸਿਕ ਪਰੇਸ਼ਾਨੀ ਬਾਰੇ ਪਤਾ ਲੱਗਦਾ, ਤਾਂ ਤੁਸੀਂ ਉਸਦੀ ਸਵੈ-ਅਦਬ (Self-respect) ਨੂੰ ਬਿਨਾਂ ਕੋਈ ਠੇਸ ਪਹੁੰਚਾਏ ਕਿਸ ਤਰ੍ਹਾਂ ਮਦਦ ਕਰਦੇ?

ਸ. ਕੇਸ ਸਟੱਡੀ / ਸਥਿਤੀ-ਆਧਾਰਿਤ ਪ੍ਰਸ਼ਨ (Situation-Based Questions)

5. ਪ੍ਰਸ਼ਨ: ਮੰਨ ਲਓ ਤੁਸੀਂ ਇੱਕ ਅਜਿਹੇ ਸਕੂਲ ਵਿੱਚ ਪੜ੍ਹਦੇ ਹੋ ਜਿੱਥੇ ਫੰਡ-ਫੰਡ ਆਰਥਿਕ ਪਿਛੋਕੜ ਵਾਲੇ (ਅਮੀਰ ਅਤੇ ਗਰੀਬ) ਬੱਚੇ ਇਕੱਠੇ ਪੜ੍ਹਦੇ ਹਨ। ਸਕੂਲ ਵਿੱਚ ਬੰਚਿਆ ਦਰਮਿਆਨ ਕੁਲਫ਼ੀ ਕਹਾਣੀ ਵਰਗਾ ਪਾੜਾ ਨਾ ਹੋਵੇ, ਇਸ ਲਈ ਇੱਕ ਜ਼ਿੰਮੇਵਾਰ ਵਿਦਿਆਰਥੀ ਜਾਂ ਸਕੂਲ ਪ੍ਰਸ਼ਾਸਨ ਵਜੋਂ ਕੀ ਤਿੰਨ ਸੁਝਾਏ ਜਾਣੇ ਚਾਹੀਦੇ ਹਨ?

2. ਘਰ ਦਾ ਪਿਆਰ ਨਿਬੰਧ

ਪ੍ਰਿੰਸੀਪਲ ਤੇਜਾ ਸਿੰਘ ਦੇ ਲੇਖ "ਘਰ ਦਾ ਪਿਆਰ" 'ਤੇ ਆਧਾਰਿਤ ਕੁਝ ਮਹੱਤਵਪੂਰਨ ਯੋਗਤਾ-ਆਧਾਰਿਤ ਪ੍ਰਸ਼ਨ (Competency-Based Questions) ਹੇਠਾਂ ਦਿੱਤੇ ਗਏ ਹਨ। ਇਹ ਪ੍ਰਸ਼ਨ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਸੋਚ ਨੂੰ ਸਿਰਫ਼ ਪਾਠ-ਪੁਸਤਕ ਤੱਕ ਸੀਮਿਤ ਰੱਖਣ ਦੀ ਬਜਾਏ, ਉਨ੍ਹਾਂ ਨੂੰ ਅਸਲ ਜ਼ਿੰਦਗੀ ਅਤੇ ਅਜੋਕੇ ਸਮਾਜਿਕ ਪਰਿਵਰਤਨਾਂ ਨਾਲ ਜੋੜ ਕੇ ਦੇਖਣ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦੇ ਹਨ:

 # ਉੱਚ-ਪੱਧਰੀ ਸੋਚ ਵਾਲੇ ਪ੍ਰਸ਼ਨ (Higher-Order Thinking - HOTS)

1. ਪ੍ਰਸ਼ਨ: ਲੇਖਕ ਅਨੁਸਾਰ, "ਜਿਹੜੇ ਲੋਕ ਘਰ ਦੇ ਪਿਆਰ ਤੋਂ ਸੱਖਣੇ ਹੁੰਦੇ ਹਨ, ਉਨ੍ਹਾਂ ਦਾ ਸੁਭਾਅ ਸਖ਼ਤ ਅਤੇ ਸਤਹੀ ਹੋ ਜਾਂਦਾ ਹੈ।" ਕੀ ਤੁਸੀਂ ਇਸ ਗੱਲ ਨਾਲ ਸਹਿਮਤ ਹੋ? ਅਜੋਕੇ ਸਮਾਜ ਵਿੱਚ ਵਧ ਰਹੇ ਗੁੱਸੇ (Road Rage) ਅਤੇ ਅਸਹਿਣਸ਼ੀਲਤਾ ਦਾ ਸਬੰਧ ਘਰ ਦੇ ਮਾਹੌਲ ਨਾਲ ਜੋੜਦੇ ਹੋਏ ਆਪਣੇ ਵਿਚਾਰ ਪੇਸ਼ ਕਰੋ।

2. ਪ੍ਰਸ਼ਨ: "ਘਰ ਸਿਰਫ਼ ਇੱਟਾਂ-ਗਾਰੇ ਦਾ ਬਣਿਆ ਮਕਾਨ ਨਹੀਂ ਹੈ।" ਇਸ ਕਥਨ ਦੇ ਰੌਸ਼ਨੀ ਵਿੱਚ ਸਪਸ਼ਟ ਕਰੋ ਕਿ ਇੱਕ ਆਧੁਨਿਕ ਸੁਖ-ਸਹੂਲਤਾਂ ਵਾਲੇ ਫਲੈਟ/ਫਲੈਟ ਅਤੇ ਇੱਕ ਅਸਲ ਘਰ ਵਿੱਚ ਕੀ ਅੰਤਰ ਹੁੰਦਾ ਹੈ?

 # ਵਿਸ਼ਲੇਸ਼ਣਾਤਮਕ ਪ੍ਰਸ਼ਨ (Analytical Questions)

3. ਪ੍ਰਸ਼ਨ: ਲੇਖਕ ਨੇ ਵੱਡੇ-ਵੱਡੇ ਦਾਰਸ਼ਨਿਕ ਉਪਦੇਸ਼ਾਂ ਅਤੇ ਸੰਗਤ ਦੀ ਉਦਾਹਰਨ ਦੇ ਕੇ ਦੱਸਿਆ ਹੈ ਕਿ ਘਰ ਦੇ ਪਿਆਰ ਤੋਂ ਬਿਨਾਂ ਉਨ੍ਹਾਂ ਦੇ ਸੁਭਾਅ ਵਿੱਚ ਖ਼ੁਸ਼ਕੀ ਆ ਜਾਂਦੀ ਹੈ। ਇਸ ਗੱਲ ਦਾ ਵਿਸ਼ਲੇਸ਼ਣ ਕਰੋ ਕਿ ਜਨਤਕ ਜੀਵਨ (Public Life) ਵਿੱਚ ਸਫ਼ਲ ਹੋਣ ਲਈ ਵੀ ਮਨੁੱਖ ਦਾ ਨਿੱਜੀ ਪਰਿਵਾਰਕ ਜੀਵਨ ਕਿਉਂ ਸੁਖੀ ਹੋਣਾ ਜ਼ਰੂਰੀ ਹੈ?

 # ਮੁੱਲ-ਆਧਾਰਿਤ ਅਤੇ ਵਿਵਹਾਰਕ ਪ੍ਰਸ਼ਨ (Value-Based & Practical Questions)

4. ਪ੍ਰਸ਼ਨ: ਅਜੋਕੇ ਸਮੇਂ ਵਿੱਚ ਪਰਿਵਾਰ ਦੇ ਸਾਰੇ ਮੈਂਬਰ ਇੱਕੋ ਕਮਰੇ ਵਿੱਚ ਬੈਠ ਕੇ ਵੀ ਆਪਣੇ-ਆਪਣੇ ਮੋਬਾਈਲ ਫ਼ੋਨਾਂ (Digital Screens) ਵਿੱਚ ਰੁੱਝੇ ਰਹਿੰਦੇ ਹਨ। ਇਸ ਵਰਤਾਰੇ ਨੇ 'ਘਰ ਦੇ ਪਿਆਰ' ਦੀ ਪਰਿਭਾਸ਼ਾ ਨੂੰ ਕਿਵੇਂ ਪ੍ਰਭਾਵਿਤ ਕੀਤਾ ਹੈ ਅਤੇ ਇਸ ਦੂਰੀ ਨੂੰ ਮਿਟਾਉਣ ਲਈ ਤੁਸੀਂ ਕੀ ਕਦਮ ਚੁੱਕੋਗੇ?

 # ਕੇਸ ਸਟੱਡੀ / ਸਥਿਤੀ-ਆਧਾਰਿਤ ਪ੍ਰਸ਼ਨ (Situation-Based Questions)

5. ਪ੍ਰਸ਼ਨ: ਮੰਨ ਲਓ ਤੁਹਾਡਾ ਇੱਕ ਦੋਸਤ ਪੜ੍ਹਾਈ ਜਾਂ ਨੌਕਰੀ ਦੇ ਸਿਲਸਿਲੇ ਵਿੱਚ ਆਪਣੇ ਪਰਿਵਾਰ ਤੋਂ ਦੂਰ ਕਿਸੇ ਦੂਜੇ ਸ਼ਹਿਰ ਵਿੱਚ ਇਕੱਲਾ (Paying Guest ਵਜੋਂ) ਰਹਿ ਰਿਹਾ ਹੈ ਅਤੇ ਉਹ 'ਹੋਮਸਿਕਨੈੱਸ' (ਘਰ ਦੀ ਯਾਦ ਵਿੱਚ ਉਦਾਸੀ) ਦਾ ਸ਼ਿਕਾਰ ਹੈ। 'ਘਰ ਦਾ ਪਿਆਰ' ਲੇਖ ਦੀਆਂ ਸਕਾਰਾਤਮਕ ਗੱਲਾਂ ਨੂੰ ਮੁੱਖ ਰੱਖਦੇ ਹੋਏ, ਤੁਸੀਂ ਉਸਨੂੰ ਮਾਨਸਿਕ ਤੌਰ 'ਤੇ ਮਜ਼ਬੂਤ ਬਣਨ ਲਈ ਕੀ ਸਲਾਹ ਦਿਓਗੇ?

Hindi

Home assignment

प्रश्न 1. बड़े भाई साहब की डाँट-फटकार अगर ना मिलती, तो क्या छोटा भाई कक्षा में अव्वल आता अपने विचार प्रकट कीजिए।

प्रश्न 2. 'बुनियाद ही पुख्ता ना हो, तो मकान पायदार कैसे बने' बड़े भाई साहब पाठ के आधार पर पंक्ति का आशय स्पष्ट कीजिए।

प्रश्न: 3'डायरी का एक पन्ना'पाठ के आधार पर लिखिए कि अंग्रेज सरकार ने कोलकाता वासियों द्वारा मोन्यूमेंट पार्क में आयोजित सभा को रोकने के लिए क्या-क्या प्रयास किया?

प्रश्न: 4 लेखक की डायरी का पन्ना भावी पीढ़ी को किस प्रकार प्रोत्साहित करता है? स्पष्ट कीजिए।

प्रश्न: 5 मनुष्यता एवं भक्ति की राह में आप पुस्तकीय ज्ञान को कितना उपयोगी या अनुपयोगी समझते हैं और क्यों? स्पष्ट कीजिए।

प्रश्न: 6 कबीर के दोहों के आधार पर कस्तूरी की उपमा को स्पष्ट कीजिए। मनुष्य को ईश्वर प्राप्ति के लिए क्या करना चाहिए?

प्रश्न: 7'हरिहर काका'कहानी समाज के किस कटु सत्य को उजागर करती है? स्पष्ट कीजिए।

प्रश्न: 8 हरिहर काका का चरित्र चित्रण कीजिए।

प्रश्न: 9 पदबंध की परिभाषा लिखिए। पदबंध के कितने भेद होते हैं उदाहरण सहित लिखिए।

प्रश्न: 10 मोटापा और डायबिटीज के उपचार के लिए आयोजित उपचार शिविर का विज्ञापन लिखिए तथा अपने क्षेत्र में सार्वजनिक पुस्तकालय और वाचनालय खोलने की प्रार्थना करते हुए शिक्षा विभाग के सचिव को लगभग 100 शब्दों में पत्र लिखिए।

Social Science

Dear students All the students are instructed to make a project file for Social Sci. on the following topics:

1. Social issues: - Title "Voices of Change – Tackling Social Challenges" **Roll No. (1 to 10)**
2. Consumer awareness Title: "Be Aware, Be Smart – The Power of a Consumer" **(Roll No.11 to 20)**
3. Sustainable Development Title: - "Towards a Greener Future – Sustainable Development Goals (SDGs)" **(Roll No.21 onwards)**

You must mention the following points: -

1.Introduction
2.Collection of data (picture based)
3.Case study
4.investigation of case study
5.conclusion and references

Rubrics:
Presentation (1)
Content (2)
Facts (1)
Compilation (1)

NOTE: This will be assessed for internal assessment of 5 Marks

Science

BIOLOGY (Chapter-5 Life Processes)

Q1. Human digestive system is a tube running from mouth to anus. Its main function is to breakdown complex molecules present in the food which cannot be absorbed as such ,so it is broken into smaller molecules. These molecules are absorbed across the walls of the tube and the absorbed food reaches each and every cell of the body where it is utilised for obtaining energy.

(a) Name the glands present in the buccal cavity and write the components of food on which the secretion of these glands act upon.

(b) Two organs have a sphincter muscle at their exit. Name them.

(c) What will happen if: (i) mucus is not secreted by the gastric glands. (ii) Villi are absent in the small intestine.

(d) "Bile juice does not contain any enzyme, yet it has important roles in digestion." Justify the statement.

Q2. Food does not pass through the digestive system by "gravity" . This is clear from the fact that we can digest the food even if we are lying down. Explain the logic behind the passage of food through our digestive system.

Q3. A. Give reasons :

(a) Ventricles have thicker muscular walls than atria.

(b) Transport system in plants is slow.

(c) Circulation of blood in aquatic vertebrates differs from that in terrestrial vertebrates.

(d) During the daytime, water and minerals travel faster through xylem as compared to the night.

(e) Veins have valves whereas arteries do not.

OR

B. i) Write one function of each of the following components of the transport system in human beings (a) Blood vessels (b) Lymph (c) Heart

ii) State the functions of the following in the alimentary canal : (i) Liver (ii) Gall bladder

Q4. Ravi went for a 5KM run early in the morning. After the run, he was breathing heavily and felt energetic. Help him understand the process involved by answering the following questions:

a) Why did Ravi start breathing heavily after the run? Name the type of respiration involved during intense physical activity.

b) Why do muscle cells sometimes perform an aerobic respiration even in the presence of oxygen during vigorous exercise?

c) Which energy carrying molecule is produced during respiration? Where is it produced in the cell?

Q5. Identify what is shown in the below diagrams and highlight their importance in human body:

a)

b)

Chapter: Light (Reflection and Refraction)

1. A 4.5 cm needle is placed 12 cm away from a convex mirror of focal length 15 cm. Give the location of the image and the magnification. Describe what happens as the needle is moved farther from the mirror.
2. Draw any three ray diagrams to show how the size and nature of image of an object change when it moves from centre of curvature of concave mirror towards the pole of the mirror.
3. Light travels from rarer medium 1 to a denser medium 2. The angle of incident and refraction are respectively 45° and 30°. Calculate the (i) refractive index of second medium with respect to the first medium and (ii) refractive index of medium 1 with respect to the medium 2.
4. A jar 15 cm long is filled with a transparent liquid. When viewed from the top, its bottom appears to be 12cm below. What is the refractive index of the liquid?
5. An object 2cm tall is placed on the axis of a convex lens of focal length 5cm at a distance of 10cm from the optical centre of the lens. Find the nature, position and size of the image formed. Which case of image formation by convex lenses is illustrated by this example?
6. A converging lens of focal length 5cm is placed at a distance of 20cm from a screen. How far from the lens should an object be placed so as to form its real image on the screen?
7. An object is placed at a distance of 50cm from a concave lens produces a virtual image at a distance of 10 cm in front of the lens. Draw a diagram to show the formation of image. Calculate focal length of the lens and magnification produced.
8. A 50 cm tall object is at a very large distance from a diverging lens. A virtual, erect and diminished image of the object is formed at a distance of 20 cm in front of the lens. How much is the focal length of the lens?
9. A convex lens of focal length 25cm and a concave lens of focal length 10cm are placed in close contact with one another.
    a. What is the power of the combination?
    b. What is the focal length of the combination?
    c. Is this combination converging or diverging?
10. The power of a combination of two lenses X and Y is 5D. If the focal length of lens X be 15 cm, then
    a. Calculate the focal length of lens Y.
    b. State the nature of the lens Y.

Math

Mathematics

Class 10th

Holiday Home assignment (2026-27)

1. A fruit vendor has 625 apples and 325 oranges. He wants to pack them in boxes such that each box has an equal number of fruits of the same type. What is the maximum number of fruits he can pack in each box?

2. The traffic lights at three different road crossings change after every 48 seconds, 72 seconds, and 108 seconds respectively. If they all change simultaneously at 7:00 AM, at what time will they change together again?

3. For the Independence Day parade, the PT teacher has to arrange 240 students of Class 10 and 210 students of Class 9 in rows. He wants to arrange them in such a way that each row has the same number of students and all students in a row are from the same class.
   a) What is the maximum number of students that can be arranged in each row?
   b) Find the total number of rows formed for both classes combined.

4. There are 576 boys and 448 girls in a school that are divided into equal sections of either boys or girls alone. Find the total number of sections thus formed.

5. A forester wants to plant 66 apple trees, 88 banana trees and 110 mango trees in equal rows [in terms of number of trees]. Also, he wants to make distinct rows of trees (i.e., only one type of trees in one row]. Find the number of minimum rows required.

6. A manufacturing company models its profit (P(x) (in thousands of rupees) from selling x units of a product by the polynomial $P(x) = -x^2 + 10x - 16$
Find the break-even points, which are the number of units sold where the profit is exactly zero (i.e., $P(x) = 0$).

7. Pooja visits a park and observes a water fountain that shoots jets of water into the air, tracing a curved, symmetrical path. She records the height of the water at various horizontal distances from the base on a graph paper and discovers the path forms a perfect parabola.
Mathematically, the path of the water jet can be represented by the quadratic polynomial $p(x) = -2x^2 + 8x - 1$
   (i) At which points will the water jet trace intersect the positive x-axis?
   (ii) If the path of a similar jet is modeled by $p(x) = ax^2 + bx + c$, state the relationship between the coefficients and zeroes of the polynomial.

8. An architect is designing a new roller coaster track. The track's path from the starting point to the first deep drop is shaped by the curve of a polynomial. The polynomial modeling this section of the track is $p(x) = x^3 - 4x^2 + x + 6$
If $(x = -1)$ represents a point where the track is at ground level $(p(-1) = 0)$, find all the other ground-level points (zeroes) for this polynomial.

9. A school is planning a day trip for its students to an amusement park. The park charges an entry fee of Rs. 250 for adults and Rs150 for students. A group consisting of 4 adults and some students pays a total of Rs. 4450.
   (i) Write a system of linear equations to represent the situation if x is the number of students and y is the number of adults.
   (ii) Formally solve the equations algebraically to find the exact number of students on the trip.
   (iii) If the park introduces a discount flat-fee package of Rs. 5000 for a group of up to 2 teachers and 25 students, how much does the school save per student compared to the original entry rate?

10. A ball is thrown vertically upwards. The mathematical model for the height h (in meters) of the ball after t seconds is given by the equation:

$$h = 20t - 5t^2$$

(i) After how many seconds will the ball reach a height of 15 meters?

(ii) Determine the exact time when the ball hits the ground.

11. Amit is designing a rectangular digital display screen for a computer. The total area of the display screen is 800 cm^2 . The length of the screen is 10 cm more than its width.

(i) If the width of the screen is x cm, form a quadratic equation representing this situation.

(ii) Find the exact dimensions (length and width) of the display screen.

IT

Practical file

UNIT -I

DIGITAL DOCUMENTATION (ADVANCED) USING LIBREOFFICE WRITER

1. InLibreOffice Writer, open the Styles and Formatting window, list available style categories, and select one style from each category.
2. Apply a style to multiple areas of your document quickly using the Fill Format tool.
3. Create a new style from selected text and update it by modifying its attributes.
4. Insert an image into a document and then modify it using the Image toolbar to resize, crop and delete 7 the image.
5. Create various drawing objects within your document, adjust their properties including color, line style, and fill, resize individual drawing objects and group multiple abjects together for better document organization.
6. Adjust the image's position in the text using text wrapping, anchoring, alignment, and arrangement options. 14
7. Create and customize a Table of Contents in a document and update or delete it.
8. Prepare a document for review by recording, accepting, or rejecting changes, and manage comments by adding or deleting them.
9. Compare two versions of a document to identify and review differences.

PAT

Project file work:

Make a project file on the topic SELF MANAGEMENT
:- meaning of self management
:-stress management techniques
:-self motivation (types)
Use these above sub points to make a proper file each subtopic should be given a proper page (use pictures and sketches to design your project)

A4 sheet work:

Make a poster on safety(props) equipment's any 5 mention its name and uses (paste/draw)

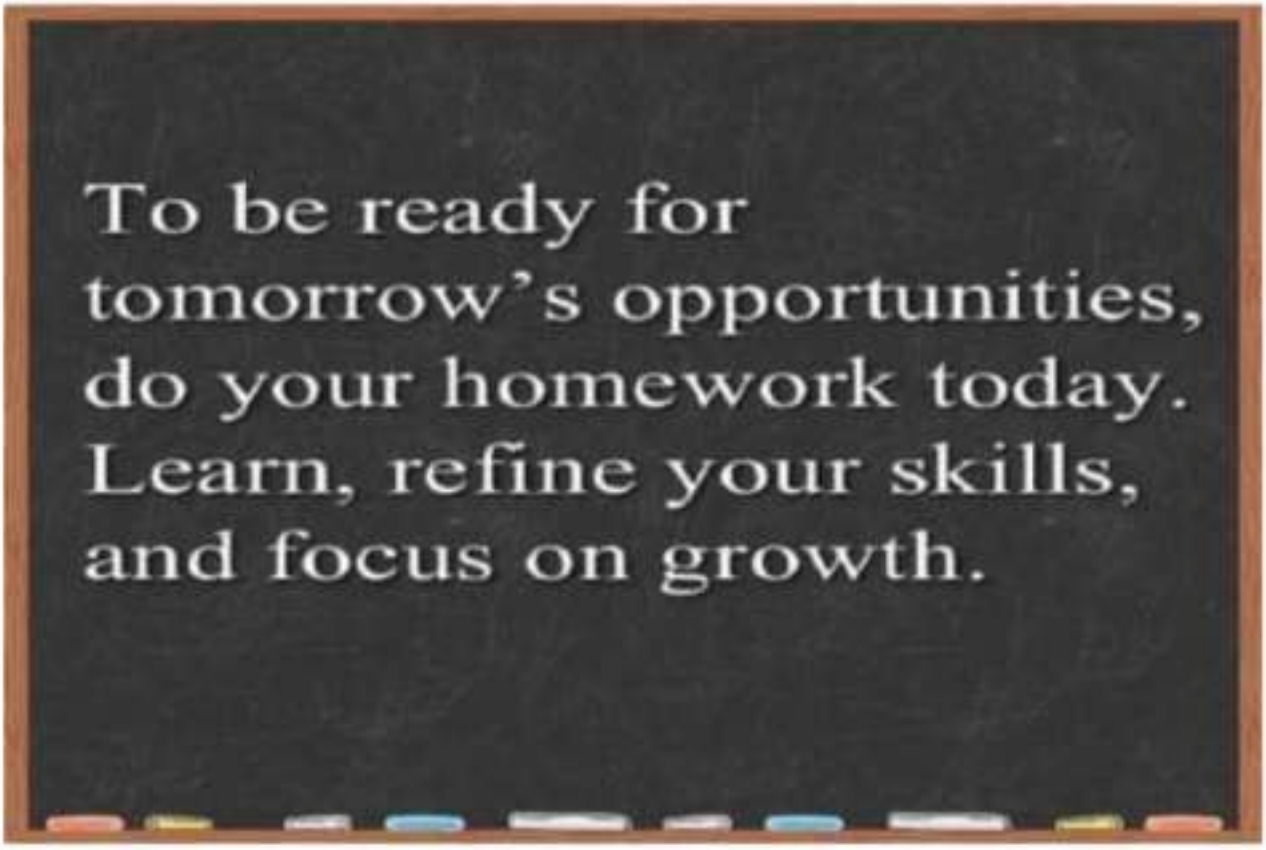
Chart work:

Make a chart on IPL 2026 game name all it's teams and captain| vice captain (at end also mention the winner of this season)
You can use pictures or logo of each team to highlight them
All the work should be neat and clean creative


ENJOY
SUMMER
TIME

CLASS XI (COMMERCE)

Home tasks for summer vacations.



***Prepare syllabus of UT-1 along with following tasks for summer vacation.**

SUBJECTS	TASKS
Economics 	**NOTE: Make a single project file for all the given tasks. Make it presentable , as it will be a part of final practical examination.** ********** **Exploring Mean & Median in Real Life** ********** **Part A: Data Collection** • **Daily Expenses:** Track your personal or family daily expenses for 10 consecutive days. • **Study Hours:** Record the number of hours you study each day for 2 weeks. • **Social Media Usage:** Note the time spent on social media daily for 7 days. **Part B: Calculation** **1. Mean:** Calculate the average for each dataset. Convert your dataset in all three types of series. Calculate Mean by all three methods. **2. Median:** Arrange the data in ascending order and find the middle value **And represent it graphically.** **3. Comparison:** Write a short note on how the mean and median differ in each case. Which is a better measure of central tendency and Why? ****Your file must be equipped with acknowledgement , certificate , introduction, conclusion and bibliography.**

English

PROJECT WORK

Chapter: Discovering Tut: The Saga Continues... (Hornbill)

Project Title:

"Unearthing the Mystery: King Tut's Life and Legacy"

Objectives of the study

- Aligning to the intersection of history and science
- Gain research and critical analysis skills
- Explore creative expression and empathy for historical figures
- Improve presentation and writing abilities

Project Components

1. Chapter Summary and Theme Analysis

- **Task**: Write a 400–600 words summary of the chapter.
- **Focus**:
  - Who was King Tut?
  - What mystery surrounds his death?
  - What scientific methods were used to investigate the mummy?
  - What themes (e.g., modern science vs. ancient traditions, curiosity, legacy) emerge?

2. Research Report: "The Boy King and His World"

- **Task**: Prepare a 2–3 page illustrated report on:
  - Ancient Egyptian civilization during Tutankhamun's reign
  - Burial customs and the importance of the afterlife
  - Howard Carter's discovery of the tomb
  - The impact of CT scans and forensic archaeology
- **Sources**: Use books, trusted websites, documentaries (e.g., *National Geographic*, *BBC*).

3. Visual Component

- **Options**:
  - Create a **poster or digital presentation** titled: "King Tut: Life, Death, and Discovery."
  - Include images (or drawings), maps of the

	Valley of the Kings, and timelines.
	
	4. Oral Presentation (Optional for Home Practice)
	
	• **Task**: Prepare a 2–3 minute speech or video explaining:
	  ◦ Why King Tut still fascinates people today.
	  ◦ What we learned from the forensic investigation.
	
	Rubrics
	
	Component — **Marks**
	Summary & Theme — 5
	Research Report — 5
	Visual Component — 5
	Presentation — 5
	Total — **20**

Accountancy 	**Accounting Simulation (Project File)** **◆Plan your business by deciding a name, business type (trading, service, or manufacturing), Decide an initial investment amount (capital you are putting in your business)** **Use this capital to list initial assets you will buy (furniture, stock, cash in hand, etc.). List initial liabilities - any money you borrowed or need to pay.** **◆Write a brief introduction about your business** **Design a business logo** *** A sample invoice with your business name.** *** Create a simple advertisement poster or flyer for your business** **◆ Prepare journal entries for 10 days of business operations, recording realistic transactions like purchases, sales, expenses, drawings, and bank dealings etc. using the standard accounting format.** **◆Open ledger accounts for all relevant heads. Post the journal entries into their respective ledger accounts using ledger format.** **◆Apply the theory base of accounting:- List and explain any 5 accounting concepts/Principles used in your business.** **◆Reflect on your learning in a short paragraph by answering:** **√What did you learn from maintaining the journal?**

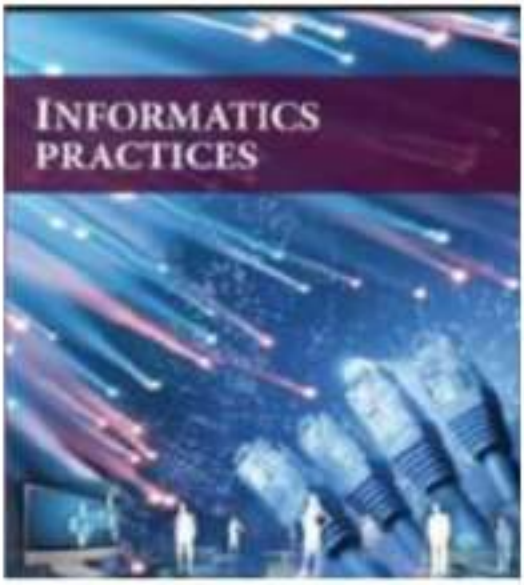
	✓Why is accounting important for business? **✓What was one challenge you faced during the project (limitation of accounting)** **'Think like a real business owner. Be creative.'**
Marketing  	**SUBJECT :- MARKETING** ➢ **Create Your Own Product :- (Roll No. 1 to 10)** Project Work on 4 P's of Marketing Mix of Product (Page limit:- 15-20) Design Branding, Packaging, Pricing and Promotional strategies for a new product ➢ **Waste To Wealth Marketing Activity:- (Roll No. 11 to 20)** Create useful products (at least 5) from waste material and decide promotional strategies Example:- Newspaper pen stand, Bottle Planter, Decorative items Students decide: Brand name, Price, Packaging and Promotional strategies ➢ **What Can Be Marketed Collage:-** ➢ **(Roll No. 21 to 30)** Prepare a collage of what can be marketed Use images, symbols and different colors ➢ **The World Of Brands:- Exploring 30 popular bands:- (Roll No. 31 to 40)** Prepare file including names and Logos (pictures) of 30 brands. Add their tag lines ➢ **Advertisement Poster:- (Roll No. 41 to 47)** Create social media advertisement poster for:- Cosmetic products, Mobile phones, Chocolates and Healthy Drinks Can be handmade or digital Include:- Hash tags, offers etc. ➢ **Make PPT on the topics given (file attached)** **(Page limit:- 10-15)** **(For All The Students)**
Banking 	❖ **A visit to Bank** Make file of various vouchers used in bank for different purposes. (For all the students) ❖ **Make PPT on the topics given (file attached)** **(Page limit:- 10-15)**
Physical Education	

Make a practical file on any of the given topics:

1. Volleyball

2. Kho - kho

IP



(Practical file of MQ SQL)

1.Create Database Named Class11

2. Open Database Class 11

3.Create a student table with the student id, class, section, gender, name, dob, and marks as attributes where the student id is the primary key.

4.View the structure of the table

5.Insert the details of at least 10 students in the above table.

6.Display the details of the student table.

7.Delete record of students who secured less than 65 marks.

8.Increase marks by 5% for who have studentid more than 1105.

9.Display the content of the table of female students.

10.Display studentid, Name and Marks whose marks are more than 50.

11.Find the average of marks from the student table.

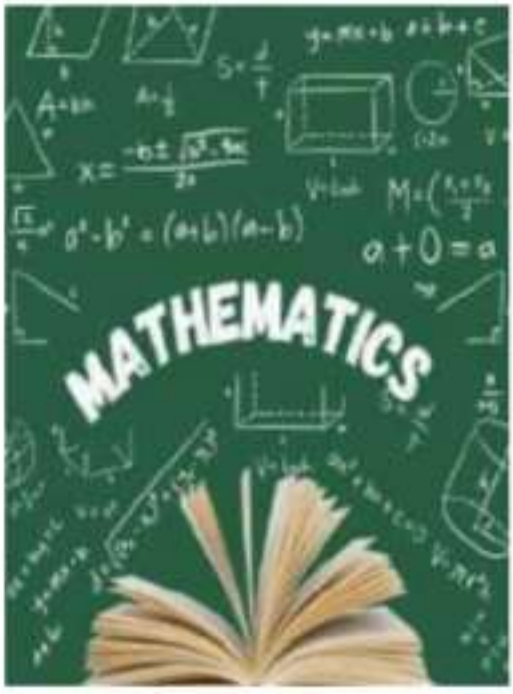
12.Find the number of students, who are from section 'A'.

13.Add a new column email in the above table.

14.Add the email ids of each student in the created email column.

15.Display the information of all the students, name contains 'sh'

16.Display the information of all the students, name starts with 'sh'

	17.Display studentid, Name, DOB of who are born in 2005 18.Display studentid, Name, DOB, Marks, Email of male students in ascending order of their names. 19.To find average of marks from the students 20.Drop table. 21. Drop Database.
Mathematics  	**"Solve assignment on mathematics notebook."** **Q1. A school conducted a survey among 100 students regarding participation in two sports: Basketball and Football.** • **58 students play Basketball** • **42 students play Football** • **18 students play both games** **Based on the above information, answer the following:** **Represent the information using a Venn diagram.** 1. **Find the number of students who play only Basketball.** 2. **Find the number of students who play only Football.** 3. **Find the number of students who play neither game.** 4. **If one more sport Cricket is introduced, explain how set theory becomes useful in analysing the data.** **Q2. Let $A = \{x : x$ is a factor of $24\}$ and $B = \{x : x$ is a prime number less than $15\}$** **Answer the following:** 1. **Write A and B in roster form.** 2. **Find: A$\cap B$, A U B, A-B, B-A.** 3. **Verify whether: $B \subseteq A$** 4. **Find: $(A - B) \cup (B - A)$** **Q3. A company assigns exactly one employee ID to each employee.** 1. **Explain why this assignment represents a function.** 2. **Identify the domain and codomain.** 3. **Can two employees have the same employee ID? Justify.** 4. **Can one employee have two employee IDs? Explain mathematically.** **Q4. The temperature in a city on a particular day is given by: $T(x) = 2x + 18$** **where x represents time in hours after sunrise. Find:** 1. **Temperature after 3 hours.** 2. **Temperature after 8 hours.** 3. **Time when temperature becomes $30^{\circ}C$.**

	Q5. If $z_1 = 5 + 3i, z_2 = 2 - 7i$ Find: $z_1 + z_2$, $z_1 - z_2$, $z_1 z_2$, Conjugate of z_2. **Q6. A factory manufactures water bottles.** **Profit per bottle = ₹35 , Daily fixed expenditure = ₹4200.The owner wants profit greater than ₹7000.** **1. Form the inequality.** **2. Find the minimum number of bottles required.** **3. Represent the solution on number line.** **Q7. Solve: $\frac{3x-4}{2} \leq 5$ and represent the solution set on number line.** **Q8. From 8 boys and 6 girls, a committee of 5 students is to be formed.** **Find the number of ways in which the committee can be formed if:** **1. No restriction is given.** **2. Exactly 2 girls are included.** **3. At least 3 boys are included.** **Q9. Find the coordinates of a point P which is equidistant from four points O(0,0,0), A(a,0,0), B(0,b,0) and (0,0,c).** **Q10. Find the value of x and y, if $\frac{(1+i)x-2i}{3+i} + \frac{(2-3i)y+i}{3-i} = i$** **Q11. A manufacturer has 600 litres of a 12% solution of acid. How many litres 30% acid solution must be added to it so that acid content in the resulting mixture be more than 15% but less than 18%.** **Q12. The three sides of a triangle are given by (2x+3) cm, (4x-1) cm and 14 cm on the basis of this, answer the following.** **(i) If the perimeter of triangle is at least 34 cm, then what is the minimum value of x?** **(ii) If the perimeter of triangle is at most 82 cm, then what is the maximum value of x?** **(iii) As we know that the sum of two sides in a triangle is greater than third side so find x if (2x+3) + (4x-1) > 14 and represent the solution on number line.**
Hindustani music vocal	**Make a project file on the following topics:** **Unit -1** Swara , Saptak , Thaat , and Margi Sangeet **Unit -2** Dhrupad. **Unit – 3** Life sketch Tansen and V.N.Bhatkhande **Unit -4** Taal Ektala and Teentala

Unit -5 Rag Bihag and Bhairavi

HOLIDAY HOMEWORK 2026-27

CLASS- XI SCIENCE

"SUMMER IS THE PERFECT TIME TO RESET AND RECHARGE."

Prepare syllabus of UT-1 along with following tasks of summer vacation.

SUBJECT	TASK
English	**PROJECT WORK** **Chapter: Discovering Tut: The Saga Continues... (Hornbill)** **Project Title:** "Unearthing the Mystery: King Tut's Life and Legacy" **Objectives of the study** • Aligning to the intersection of history and science • Gain research and critical analysis skills • Explore creative expression and empathy for historical figures • Improve presentation and writing abilities **Project Components** **1. Chapter Summary and Theme Analysis** • **Task**: Write a 400–600 words summary of the chapter.

- **Focus**:
  - Who was King Tut?
  - What mystery surrounds his death?
  - What scientific methods were used to investigate the mummy?
  - What themes (e.g., modern science vs. ancient traditions, curiosity, legacy) emerge?

2. Research Report: "The Boy King and His World"

- **Task**: Prepare a 2–3 page illustrated report on:
  - Ancient Egyptian civilization during Tutankhamun's reign
  - Burial customs and the importance of the afterlife
  - Howard Carter's discovery of the tomb
  - The impact of CT scans and forensic archaeology
- **Sources**: Use books, trusted websites, documentaries (e.g., *National Geographic*, BBC).

3. Visual Component

- **Options**:
  - Create a **poster or digital presentation** titled: "King Tut: Life, Death, and Discovery."
  - Include images (or drawings), maps of the Valley of the Kings, and timelines.

4. Oral Presentation (Optional for Home Practice)

- **Task**: Prepare a 2–3 minute speech or video explaining:
  - Why King Tut still fascinates people today.
  - What we learned from the forensic investigation.

Rubrics

Component	Marks
Summary & Theme	5
Research Report	5
Visual Component	5
Presentation	5
Total	**20**

Biology	  **Note:** **Do only one of the above.**
Physical Education	**Make a practical file on any of the given topics** 1. Volleyball 2. Kho - kho

Chemistry

Assignment 1

Chapter 1: Some Basic Concepts of Chemistry

Section A: Case Study Based Questions

Case Study

A fertilizer company prepared a sample containing ammonium sulfate and impurities. A chemist analysed 13.2 g of the sample and found that it contained 6.8 g nitrogen. During transportation, another bag of the same fertilizer absorbed moisture from air and its mass increased by 5%.

Questions

1. Calculate the percentage of nitrogen in the original sample.
2. Determine whether the absorbed moisture will change the percentage composition of nitrogen. Give reason.
3. State which law of chemical combination is applicable in percentage composition studies.

Section B: Short Answer Type Questions

1. Why is atomic mass of chlorine taken as 35.5 u and not a whole number?
2. A student calculated molar mass of NaOH as 39 g mol^{-1} instead of 40 g mol^{-1}. Explain how this error will affect the number of moles calculated.
3. Why is mole concept considered a bridge between microscopic and macroscopic chemistry?

Section C: Long Answer Type Questions

1. Explain how Dalton's Atomic Theory successfully explained the laws of chemical combinations. Also mention one limitation.
2. A compound contains carbon, hydrogen and oxygen. Explain stepwise how empirical formula and molecular formula are determined experimentally.
3. Discuss the importance of stoichiometry in industrial chemistry with suitable examples.

Section D: Numerical Questions

1. A hydrocarbon contains 85.7% carbon and 14.3% hydrogen. Its molar mass is 56 g mol^{-1}. Determine its empirical and molecular formula.
2. 12 g magnesium reacts with 20 g oxygen according to:
   $2Mg + O_2 \rightarrow 2MgO$
   Calculate the limiting reagent and mass of MgO formed.
3. Calculate the number of atoms present in 4.4 g of carbon dioxide.
4. A compound contains 40% carbon, 6.7% hydrogen and 53.3% oxygen. Determine its empirical formula.

5. Calculate the number of moles present in 44 g of carbon dioxide (CO_2).
6. A compound contains 40% carbon, 6.7% hydrogen and 53.3% oxygen. Determine its empirical formula.
7. Calculate the number of molecules present in 18 g of water (H_2O).
8. In the reaction: $2H_2 + O_2 \rightarrow 2H_2O$
   If 4 g of hydrogen reacts with 40 g of oxygen, identify the limiting reagent.
9. 5.6 g of iron reacts with excess hydrochloric acid according to the equation:
   $Fe + 2HCl \rightarrow FeCl_2 + H_2$
   Calculate the mass of hydrogen gas produced.

Assignment 2

Chapter 2: Structure of Atom

Section A: Case Study Based Questions

Case Study

During an experiment in a discharge tube, a scientist observed cathode rays moving towards the positive plate. Later, another scientist performed alpha particle scattering experiment and concluded that most of the space inside an atom is empty.

Questions

1. Name the scientist associated with cathode ray experiment.
2. What conclusion was drawn from Rutherford's alpha scattering experiment?
3. Why was Thomson's model unable to explain Rutherford's observations?

Section B: Short Answer Type Questions

1. Why do electrons not lose energy while revolving in Bohr's permitted orbits?
2. Explain why 2s orbital has lower energy than 2p orbital.
3. Why is Heisenberg's Uncertainty Principle important in quantum mechanics?

Section C: Long Answer Type Questions

1. Compare Thomson's atomic model and Rutherford's atomic model on the basis of structure and limitations.
2. Explain Bohr's model of hydrogen atom and discuss its achievements and limitations.
3. Describe the significance of quantum numbers in determining electronic configuration.

	Section D: Numerical Questions 1. Calculate the energy of a photon having wavelength 500 nm. 2. The frequency of radiation emitted by hydrogen atom is 6×10^{14} Hz. Calculate its wavelength. 3. Calculate the maximum number of electrons possible in: (a) N-shell (b) 4d subshell 4. Write the electronic configuration of: (a) Chromium (Z = 24) (b) Copper (Z = 29) 5. Calculate the energy of radiation having wavelength 300 nm.**Use:** $E = \frac{hc}{\lambda}$ 6. An electron in a hydrogen atom jumps from $n = 5$ to $n = 2$. Name the spectral series formed and identify whether energy is absorbed or emitted. 7. Calculate the maximum number of electrons possible for: - (a) Principal quantum number $n = 3$ - (b) Subshell d 8. The wavelength of a radiation is 6×10^{-7} m. Calculate its frequency.**Use:** $c = \nu\lambda$ 9. Write the electronic configuration of the following ions and identify whether they are isoelectronic: - (a) Na^+ - (b) Mg^{2+} - (c) F^-
IP	**June Home assignment (Practical file of MQ SQL)** 1.Create Database Named Class11 2. Open Database Class 11 3.Create a student table with the student id, class, section, gender, name, dob, and marks as attributes where the student id is the primary key. 4.View the structure of the table 5.Insert the details of at least 10 students in the above table. 6.Display the details of the student table. 7.Delete record of students who secured less than 65 marks. 8.Increase marks by 5% for who have studentid more than 1105.

	9.Display the content of the table of female students. 10.Displaystudentid, Name and Marks whose marks are more than 50. 11.Find the average of marks from the student table. 12.Find the number of students, who are from section 'A'. 13.Add a new column email in the above table. 14.Add the email ids of each student in the created email column. 15.Display the information of all the students, name contains 'sh' 16.Display the information of all the students, name starts with 'sh' 17.Display studentid, Name, DOB of who are born in 2005 18.Displaystudentid, Name, DOB, Marks, Email of male students in ascending order of their names. 19.To find average of marks from the students 20.Drop table. 21. Drop Database.
Mathematics	**Q1. A school conducted a survey among 100 students regarding participation in two sports: Basketball and Football.** • **58 students play Basketball** • **42 students play Football** • **18 students play both games** **Based on the above information, answer the following:** **Represent the information using a Venn diagram.** **1. Find the number of students who play only Basketball.** **2. Find the number of students who play only Football.** **3. Find the number of students who play neither game.** **4. If one more sport Cricket is introduced, explain how set theory becomes useful in analysing the data.** **Q2. Let $A = \{x : x$ is a factor of 24$\}$ and $B = \{x : x$ is a prime number less than 15$\}$** **Answer the following:** **1. Write A and B in roster form.** **2. Find: A∩ B, A ∪ B, A-B, B-A.**

3. **Verify whether:** $B \subset A$
4. **Find:** $(A - B) \cup (B - A)$

Q3. A company assigns exactly one employee ID to each employee.

1. **Explain why this assignment represents a function.**
2. **Identify the domain and codomain.**
3. **Can two employees have the same employee ID? Justify.**
4. **Can one employee have two employee IDs? Explain mathematically.**

Q4. The temperature in a city on a particular day is given by: $T(x) = 2x + 18$ **where** x **represents time in hours after sunrise. Find:**

1. **Temperature after 3 hours.**
2. **Temperature after 8 hours.**
3. **Time when temperature becomes** $30^{\circ}C$.

Q5. If $z_1 = 5 + 3i, z_2 = 2 - 7i$ **Find:** $z_1 + z_2$, $z_1 - z_2$, $z_1 z_2$, **Conjugate of** z_2.

Q6. A factory manufactures water bottles.
Profit per bottle = ₹35 ,Daily fixed expenditure = ₹4200. The owner wants profit greater than ₹7000.

1. **Form the inequality.**
2. **Find the minimum number of bottles required.**
3. **Represent the solution on number line.**

Q7. Solve: $\frac{3x-4}{2} \leq 5$ **and represent the solution set on number line.**

Q8. From 8 boys and 6 girls, a committee of 5 students is to be formed. Find the number of ways in which the committee can be formed if:

1. **No restriction is given.**
2. **Exactly 2 girls are included.**
3. **At least 3 boys are included.**

Q9. Find the coordinates of a point P which is equidistant from four points O(0,0,0), A(a,0,0), B(0,b,0) and (0,0,c).

Q10. Find the value of x and y, if $\frac{(3+i)(x-2i)}{3+i} + \frac{(2-3i)(y+i)}{3-i} = i$

Q11. A manufacturer has 600 litres of a 12% solution of acid. How many litres 30% acid solution must be added to it so that acid content in the resulting mixture be more

	than 15% but less than 18%. **Q12. The three sides of a triangle are given by (2x+3) cm, (4x-1) cm and 14 cm on the basis of this, answer the following. (i) If the perimeter of triangle is at least 34 cm, then what is the minimum value of x? (ii) If the perimeter of triangle is at most 82 cm, then what is the maximum value of x? (iii) As we know that the sum of two sides in a triangle is greater than third side so find x if (2x+3) + (4x-1) > 14 and represent the solution on number line.**
Music	Unit - Swara , Saptak,Thaat,and Margi Sangeet Unit -2Dhrupad. Unit – 3Life sketch Tansen and V.N.Bhatkhandebhi Unit -4TaalEktala and Teentala Unit -5Rag Bihag and Bhairavi and project File

Physics

ASSIGNMENT 1: UNITS AND MEASUREMENTS

1. A particle is in a unidirectional potential field where the potential energy (U) of a particle depends on the x coordinate given by $U_x = k(1 - \cos ax)$ where k and 'a' are constants. Find the physical dimensions of 'a' & k.
2. The equation for the speed of sound in a gas states that $v = \sqrt{\gamma K_B T/m}$. Speed 'v' is measured in m/s, γ is a dimensionless constant, T is temperature in kelvin (K), and m is mass in kg. Find the SI unit for the Boltzmann constant, K_B?
3. The time period (T) of a spring mass system depends upon mass (m) & spring constant (k) & length of the spring (l) $\left[k = \frac{\text{force}}{\text{length}}\right]$. Find the relation among T, m, l & k using dimensional method.
4. The distance moved by a particle in time t from centre of a ring under the influence of its gravity is given by $x = a \sin \omega t$, where a & ω are constants. If ω is found to depend on the radius of the ring (r), its mass (m) and universal gravitational constant (G). Using dimensional analysis find an expression for ω in terms of r, m and G.
5. A satellite is orbiting around a planet. Its orbital velocity (v_o) is found to depend upon
   (A) Radius of orbit (R)
   (B) Mass of planet (M)
   (C) Universal gravitation constant (G)
   Using dimensional analysis find an expression relating orbital velocity (v_o) to the above physical quantities.
6. Given $\vec{F} = \frac{\vec{A}}{v}$ where symbols have their usual meaning. The dimensions of A is.
7. Assume that the largest stone of mass 'm' that can be moved by a flowing river depends upon the velocity of flow v, the density d & the acceleration due to gravity g. If 'm' varies as the K^{th} power of the velocity of flow, then find the value of K.
8. The equation of state for a real gas at high temperature is given by $P = \frac{nRT}{V-b} - \frac{a}{V(V+a)}$ where n, P, V & T are number of moles, pressure, volume & temperature respectively & R is the universal gas constant. Find the dimensions of constant a in the above equation.
9. If Energy (E), velocity (v) and time (T) are fundamental units. What will be the dimension of surface tension?
10. In system called the star system we have 1 star kilogram = 10^{10} kg, 1 starmeter = 10^8 m, 1 starsecond = 10^4s then calculate the value of 1 joule

Assignment 2

ASSIGNMENT (OBJECTIVE)

MOTION IN A STRAIGHT LINE

1. A particle starts from point A with constant speed v on a circle of radius R. Find magnitude of average velocity during its journey from: –

a.) A to B b.) A to C c.) A to D

2. A particle is moving along x-axis. Initially it is located 5 m left of origin and it is moving away from the origin and slowing down. In this coordinate system, what are the signs of the initial velocity and acceleration.

3. A car accelerates with uniform rate from rest on a straight road. The distance travelled in the last second of a three second interval from the start is 10 m. How far did the distance travelled in first second is it:
4. A particle moving in one-dimension with constant acceleration of $20\ m/s^2$ is observed to cover a distance of 100 m during a 4s interval. How far will the particle move in the next 4s?
5. A particle starts from rest at $t = 0$ and a = 5 to move with a constant acceleration $5\ m/s^2$. for 20 seconds. After that, it moves with $-4\ m/s^2$ for the next 20 seconds. Finally, it moves with positive acceleration for 10 seconds until its velocity becomes zero.
   a. What is the value of the acceleration in the last phase of motion?
   b. What is the final x-coordinate of the particle?
   c. Find the total distance covered by the particle during the whole motion.
6. A body moving with uniform acceleration has a velocity of $-12.99\ i$ when its x coordinate is 2.00 m. If its x coordinate 2 s later is + 3 m, what is the magnitude in m/s^2 of its acceleration?
7. A driver travelling at speed $56.0\ km/h^{-1}$ sees the light turn red as the intersection. If his reaction time is 0.4s, and then the car can decelerate at $6m/s^{-2}$. Find the stopping distance of the car.
8. The window of the fourth floor of building is 5 m high. A man looking out of the window sees an object moving up and down the height of window for 2 sec. Find the height that the object reaches from the top end of the window.
9. A body is dropped from a height of 100 m. Exactly at the same instant another body is projected from the ground level vertically up with a velocity of $25\ ms^{-1}$. Find when they will meet.
10. A coin is dropped from the top of a tall cliff, and 2s later a second coin is thrown vertically downward with a velocity of $30\ ms^{-1}$. How far below the top of the cliff will the second coin overtake the first?
11. Speed of train is increasing linearly with time. The train passes a boy with speed 2 m/s and acquires a speed of 22 m/s after 20 s. What is the speed of the train as 40 m, 5 s after passing the boy?
12. Two particle A and B are moving in same direction on same straight line. A is ahead of B by 20m. A has constant speed 5 m/sec and B has initial speed 25 m/sec and retardation of $10\ m/s^2$. Then if x (in m) is total distance travelled by B as it meets A for second time. Then value of x will be:
13. A boy throws a ball with speed 5 m a well of depth 24 m as shown. On bounce with bottom of the well the speed of the ball gets halved. What should be the minimum value of v (in m/s) such that the ball may be able to reach his hand again? It is given that his hands are at 1 m height from top of the well while throwing and catching.

14. From the top of a cliff, a ball is thrown vertically upwards. When the ball reaches its maximum height, its speed is double of when it was at height h above the cliff. Find the greatest height achieved by the ball from the cliff.

15. A rocket is fired vertically upwards with initial velocity $40\ m/s$ on the ground level. Its engine stops after t seconds and it is accelerated at $2\ m/s^2$ until it reaches its maximum velocity of $120\ m/s$. At that point the engine is cut off and the rocket goes into free fall. If the rocket hit the ground at $420\ m$, find the value of t. Take the value of g, acceleration due to gravity, as $10\ m/s^2$.

16. A balloon rises from rest on the ground with constant acceleration $\frac{1}{8}$. A stone is dropped when the balloon has risen to a height 60 above. The time taken for the stone to reach the ground is 2 seconds. Find the value of g.

17. The position x of a particle at time t along x-axis is given by $x = 2t^3 - t^2$ where x is in metre and t in second. Find

a. Maximum speed acting on the particle
b. Position of the particle when it changes direction
c. Total distance travelled by the particle in the first two seconds

18. The acceleration of a particle moving on straight line is given by $a = 3t\hat{i} + \left(\frac{1}{2}t - 6\right)\hat{j}\ m/s^2$. Find the value of t at which the acceleration of the particle is parallel to the resultant force acting on the body. (Hint: Two vectors are parallel if $\vec{a} = k\vec{b}$)

19. The velocity of the particle is given as $v = 2t^2 + 5 - \frac{1}{2t}$. Find the work done by the force acting on the body at time $t = 2\ sec$. If the mass of the body is $3\ kg$.

20. A wheel rotates in such a way that the angle of rotation is proportional to the square of time. The first revolution was performed by the wheel in $2\ sec$. Find the angular velocity in rad/s after the wheel started. (Hint: Consider $\theta = kt^2$, find k)

21. The charge flowing through a conductor beginning with time $t = 0$ is given by the formula $q = 2.5t^2 - 3t + 1\ (MILLIARDS)$. Find the current $I = \frac{dq}{dt}$ at the end of the 5^{th} second.

22. The angle γ through which a pulley turns with time t is specified by the function $\theta = t^2 + 3t - 5$. Find the angular velocity in $\frac{rad}{s}$ at $t = 5\ sec$.

23. The motion of a particle on a straight line is defined by the relation $x = t^3 - 12t^2 - 22t + 40$ where x is in meters and t is in sec. Determine the position x, velocity v and acceleration a of the particle at $t = 3sec$.

24. A point moves on a straight line so that its distance from the origin at time t is equal to

$$x = \frac{1}{4}t^4 - 6t^3 + 16t^2.$$

a. At what times is the point at the starting position?
b. At what times is its velocity equal to zero?

25. A body whose mass is $2\ kg$ partially retraced motion according to the formula $s = 3 + t + t^2$, where s is measured in m in t in seconds. Determine the kinetic energy $\left(\frac{1}{2}mv^2\right)$ of the body at 4 sec after the start.

26. A force of $40N$ is required to the acceleration of a body governed by the equation $s = 2t + t^2$, where s is in meters and t in sec. What is the momentum of the body at $t = 2\ sec$? (Hint: Find acc. then $F = \frac{d}{dt}(p = mv)$)

27. The angle through by a door is given by $\theta = \frac{1}{3}t^3 - \frac{11}{2}t^2 + 77t + 2$. Where θ is in rad and t in seconds.

a. Find the time at which the angular velocity of the door is zero.
b. Its angular acceleration at those times.

28. The acceleration of a particle starting from rest with respect to time is given by $a = 12(2 - t)$, where t is in seconds. Find the time (t) required to attain velocity of particle its maximum velocity in m/s second.

30. Acceleration of a particle is defined as $a = (750^{\circ} - 180^{\circ} + 3)\cos(3t^{\circ})$. If the constant speed achieved for the particle is given by K, then find the value of $2K$.

31. Position vector of a particle is given by $\vec{r} = 2t^{2}\hat{i} + 4t\hat{j} + t^{3}\hat{k}$. Find the average acceleration of particle from $t = 1$ to $t = 3$ sec.

32. In the following graph variation with time (t) in velocity (v) of a particle moving rectilinearly is shown. What is average velocity in m/s of the particle in time interval from $t = 1s$ to $t = 5$?

33. The graph illustrates motion of a bucket being lowered into a well from the top at the instant $t = 0$. Down in the water level, filled with water and drawn up again. Here 'x' is the depth. Find the average speed of the bucket in m/s during whole operation.

34. A particle moves along a straight line, x - Ax time $t = 0$, its position is at $x = 0$. The velocity, V, of the object changes as a function of time t, as indicated in the figure, t is in seconds, V in m/sec and x in meters.

a. What is x at $t = 3$ sec?
b. What is the instantaneous acceleration (in m/sec²) at $t = 2$ sec?
c. What is the average velocity (in m/sec) between $t = 0$ and $t = 3$ sec?
d. What is the average speed (in m/sec) between $t = 1$ and $t = 3$ sec?

35. The figure below is a displacement vs time plot for the motion of an object. Answer questions (a) & (b) with the letter of appropriate section of the graph.

a. Which section represents motion in the forward direction with positive acceleration?
b. Which section represents uniform motion backwards (-x direction)?

36. (a) The diagram shows the displacement-time graph for a particle moving in a straight line. Find the average velocity for the interval from $t = 0$ to $t = 6$.

(b) The diagram shows the displacement-time graph for a particle moving in a straight line. Find the average speed for the interval from $t = 0$ to $t = 3$.

38. Figure shows a graph of acceleration of a particle moving on the x-axis. Plot the following graphs if the particle is at origin and at rest at $t = 0$.

   a. velocity-time graph
   b. displacement-time graph
   c. distance-time graph

HOME ASSIGNMENT

CLASS- 12TH SCIENCE

PHYSICS

- **Project File:** As per topic allotted to the students.
- **Practical File:** As per the syllabus discussed, except the observation table file should be completed in every aspect.

CHEMISTRY

- **Project File:** As per topic allotted to the students.
- **Practical File:** As per the syllabus discussed, except the observation table file should be completed in every aspect.

BIOLOGY

- **Project File:** As per topic allotted to the students.
- **Practical File:** As per the syllabus discussed, except the observation table file should be completed in every aspect.

MATHEMATICS

1. To verify that for a function f to be continuous at given point X_0, $\Delta Y = |f(X_0+\Delta X)-f(X_0)|$ is arbitrarily small provided. Δx is sufficiently small.
2. To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l \mid\mid m\}$ is an equivalence relation.
3. To demonstrate a function which is not one-one but is onto.
4. To explore the principal value of the function $\sin^{-1}x$ using a unit circle.
5. To find analytically the limit of a function f (x) at x = c and also to check the continuity of the function at that point.
6. To understand the concepts of local maxima, local minima and point of inflection.
7. To understand the concepts of absolute maximum and minimum values of a function in a given closed interval through its graph.
8. To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner.
9. To understand the concepts of decreasing and increasing functions.

10. To find the time when the area of a rectangle of given dimensions becomes maximum, if the length is decreasing and the breadth is increasing at given rates.

NOTE: Complete all these activities in your Mathematics Practical File during holidays. Write neatly and draw diagrams where required.

Submit your file on the first day after school reopens.

ENGLISH

Project Title: "Lost Childhoods, Silent Stories"

Note: Following are few components of the project and students can opt any two of the following.

Project Components

1. Story Scrapbook: "Two Worlds, One Reality"

- **Create a scrapbook** (physical or digital) with two sections:
  - **Part 1: Saheb-e-Alam – The Ragpicker**
  - **Part 2: The Bangle Maker's Son – From Firozabad**
- Include:
  - A brief profile of each child (name, age, daily life)
  - Images or sketches showing their world
  - Quotes from the chapter with your commentary

Note: *Add a page at the end called "My Reaction" — share how their lives made you feel and what you learned.*

2. Photojournalism Mini-Project (Creative Fieldwork)

- **Step outside** (with permission) and observe:
  - Do you see children working in any form of labor?

    - Are there children who don't go to school?
- **Click 2–3 photos** (only if allowed and safe to do so), or describe what you saw in a journal-style entry.
- Reflect: What would you say to those children if you could?

***Note**: This is an observational and awareness task. Never approach children or take photos without consent.*

3. Role play or Monologue

- Write a **monologue** from the point of view of:
    - Saheb or
    - The child from Firozabad
- Perform it at home or record a video (2–3 minutes)
    - Express their dreams, their pain, and their hopes for a better future.

4. Campaign for Change: "Voices for the Voiceless"

- Design a **mini social awareness campaign** (poster, pamphlet, or Instagram post-style slide deck):
    - Theme: "Let Them Learn, Not Earn"
    - Use real slogans or create your own
    - Add facts/statistics about child labor
    - Suggest 2–3 things that *students* can do to help

5. Reflective Journal Prompt

Write on this topic:

"If I could give Saheb one gift this spring, what would it be, and why?"
(250–300 words)

Encourage empathy and imagination.

Assessment Rubric

Task	Marks
Story Scrapbook	10
Photo journal/Observation	10
Monologue/Role play	10
Social Campaign	10
Reflective Journal	10

PHYSICAL EDUCATION

Make a practical file on any of the given topics

1. Volleyball
2. Kho - kho
3. Introduction of life style Disease (any one)
   - A) Obesity
   - B) Diabetes
   - C)Asthma
   - D) Hypertension
   - E) Back pain and arthritis

INFORMATIC PRACTICES

Note: Practical file make in MS Word You will submit in Hard Copy (Print form)

SQL QUERIES :

- Create a database
- Use database
- Create tables Bike ,customer and Employees
- Inserting the records (8-10)
- Display the records of table
- To display with detail of customer whose name start with 's'
- To display end with detail of customer whose email id '.com'
- To count no of employees.
- To display detail of customer alphabetically
- Display the email in capital alphabets'
- T0 display employees before "1996/12/12"
- To count the quantity of the Bike
- To show the quantity of Bik which more sold
- To display employee salary id of employees whose greater than 23,000' thousand
- To count the no of times payment method used
- To trim the whit space from the string

- To find length of string
- To display all date employees no day, month, year of jaining of
- To Count the substring from the string
- To display power function
- To display the MIN ,MAX values

SQL Queries Rubric

Criteria
1. Database Creation & Usage
2. Table Creation (2 Tables)
3. Record Insertion (5–6 Records)
4. Query Accuracy (10+ Queries)
5. Use of Functions & Conditions

MUSIC

Make Project File on following Topics:-

Unit -1 :- Alankar, Gamak, Khatka and Murchhana
Unit -2 :- Historical development of Time theory of Ragas
Unit- 3 :- Sangeet Ratnakar, Sangeet Parijat and Faiyaz Khan
Unit -4 :- Dhamar Tala and Jhaptala
Unit -5 :- Bhairav Ragas, Malkauns Ragas

SUMMER VACATION ASSIGNMENT
CLASS:- XII COMMERCE
SESSION :- 2026-27

General Instructions:-

- **Avoid excessive use of mobile phones, video games and social media**
- **Do physical activities like walking, cycling, yoga or playing outside**
- **Maintain a balanced diet- avoid too much junk food**
- **Revise syllabus thoroughly of all the subjects for Unit Test –I (to be conducted in July,2026)**

SUBJECT	TASKS
ACCOUNTANCY	❖ **Goodwill Calculation Wheel:- (Roll No. 3, 6, 7,9, 10,12)** Draw a large wheel with Methods of valuation of Goodwill in the center Divide it into sections:- • Average Profit Method • Weighted Average Profit Method • Super Profit Method • Capitalization Method Include the formulas in each section ❖ **Goodwill Umbrella:- (Roll No.15, 16, 18, 25, 28)** Create a chart for the treatment of goodwill as per AS-26 Panels of Umbrella: Definition, Various cases for Accounting Treatment of Goodwill ❖ **Fundamental Flower Chart:- (Roll No. 14, 22, 23, 26, 29,30,31)** Centre :-Partnership Petals:- Calculation of Interest on drawings Format of Profit and Loss Appropriation A/c Format of Partner's Capital A/c Calculation and treatment of Interest on Capital

BUSINESS STUDIES	❖ **Prepare Project on :-** -- Principles of Management -- Business Environment -- Marketing Management -- Consumer Protection Act, 2019 ❖ **Model Making :- Levels of Management (Roll No. 1 to 9)** Use cardboard/ clay to create 3 D model of Levels of Management ❖ **Business Environment Tree:- (Roll No. 10 to 20)** Students will create a large tree chart: Roots—Business Branches—Economic, Social, Political, Legal, Technological environment Leaves—Real-life examples ❖ **Metro Principle Route Map: (Roll No. 21 to 31)** Design a metro map where each station represents a Fayol Principle Show how an organization reaches its destination (Success) by following each principle.
BANKING	**Make Project Files :-** Different modes of transferring funds ◆Visit any nearby bank branch and collect sample documents/forms, details regarding different modes of transferring funds from one person to another such as: • Paper based: Cheque, Demand draft, Cash deposit slip, Banker's cheque(Pay order), Withdrawal slip or any other • Electronic based: RTGS, NEFT, IMPS, UPI • Card based: Debit card, credit card, ATM's Or any other ◆For each mode, collect the following: • Full Form & How it works • Time taken for transfer • Charges involved (if any) • Daily transaction limit • Documents required • Sample Form/Image • Advantages and disadvantages

ECONOMICS

PROJECT FILES:-

ROLL NO.	NAME	TOPIC
2	ANSHUMAN RAWAL	ORGANIC FARMING
4	ARMAAN JAKHU	INDIAN ECONOMY-ON EVE OF INDEPENDENCE
5	ARYAN KAPOOR	MONEY AND CREDIT CREATION MECHANISM BY COMMERCIAL BANKS
6	EKAM	LPG-1991 REFORMS
7	EKAMHARIJOT SINGH	MONEY SUPPLY-ROLE OF RBI
8	GAURAV GUPTA	SUSTAINABLE DEVELOPMENT
9	GAURAVCHANDER	INDIA-PAKISTAN-CHINA: A COMPARATIVE LOOK
10	GAUTAM JAIN	NATIONAL INCOME ACCOUNTING
11	GURKIRAT SINGH	AGRICULTURE,INDUSTRY &TRADE(1950-1990)
12	GURLEEN KAUR	RURAL CREDIT – BASE OF RURAL DEVELOPMENT
15	JASMEEN SHARMA	MONEY & BANKING SYSTEM
16	JESSICA	SUSTAINABLE DEVELOPMENT
17	KARANVIR GHAI	HCF
18	RITIKA	LPG-1991 REFORMS
22	SANYAM SHARMA	MONEY & BANKING SYSTEM
23	SHREYA	AGRICULTURE, INDUSTRY & TRADE (1950-1990)
25	SIMRAN KHOSLA	NATIONAL INCOME ACCOUNTING
26	SUKHKIRAT	NATIONAL INCOME AGGREGATES (UPTO CH.3)
28	YATIN MADHAS	INDIA-PAKISTAN-CHINA: A COMPARATIVE LOOK
30	YUVRAJ SINGH	ROLE OF BANKING MECHANISM IN RURAL DEVELOPMENT

RUBRICS:

	INSTRUCTIONS: The following are common points which can go in any projects, but if according to your project some other points are there, you can add accordingly, before asking me. Otherwise make according to given rubrics. ***YOU CAN REFER YOUR BOOKS FOR MORE CLARITY OF TOPICS AND ADD TOPICS FROM BOOK ALSO.** 1. Acknowledgement 2. Certificate 3. Index 4. Introduction of topic * Definition/meaning (if any definition of topic then add otherwise optional) 5. History(optional) 5. Need 6. objective/importance 7. types/ principles/aims/strategies/process/procedure (any 1-2 or more according to topic) 8. characteristics / features 9. measures/formula for calculating (according to topic) 9. impact on economy 10. advantages 11 disadvantages/ limitations 12.conclusion 13. bibliography **(includes the different sources from where you gather information of topic. E.g.:** **Wikipedia, additional books, prescribed books etc, google (mention complete site)** 14. Observation**: (it only includes internal examiner signature and remarks an external examiner signature)**
PHYSICAL EDUCATION	Make a practical file on any of the given topics 1. Volleyball 2. Kho – kho 3. Introduction of life style Disease (any one) A) Obesity B) Diabetes C)Asthma D) Hypertension E) Back pain and arthritis
MUSIC	**Make Project File on following Topics:-** Unit -1 :- Alankar, Gamak, Khatka and Murchhana Unit -2 :- Historical development of Time theory of Ragas Unit- 3 :- Sangeet Ratnakar, Sangeet Parijat and Faiyaz Khan Unit -4 :- Dhamar Tala and Jhaptala Unit -5 :- Bhairav Ragas, Malkauns Ragas

INFORMATICS PRACTICES	Note: Practical file make in MS Word You will submit in Hard Copy (Print form) SQL QUERIES : ● Create a database ● Use database ● Create tables Bike ,customer and Employees ● Inserting the records (8-10) ● Display the records of table ● To display with detail of customer whose name start with 's' ● To display end with detail of customer whose email id '.com' ● To count no of employees. ● To display detail of customer alphabetically ● Display the email in capital alphabets' ● T0 display employees before "1996/12/12" ● To count the quantity of the Bike ● To show the quantity of Bik which more sold ● To display employee salary id of employees whose greater than 23,000' thousand ● To count the no of times payment method used ● To trim the whit space from the string ● To find length of string ● To display all date employees no day, month, year of jaining of ● To Count the substring from the string ● To display power function ● To display the MIN ,MAX values **SQL Queries Rubric :** Criteria 1. Database Creation & Usage 2. Table Creation (2 Tables) 3. Record Insertion (5–6 Records) 4. Query Accuracy (10+ Queries) 5. Use of Functions & Conditions

MATHEMATICS	1. To verify that for a function f to be continuous at given point X_0, $\Delta Y = |f(X_0+\Delta X)-f(X_0)|$ is arbitrarily small provided. Δx is sufficiently small. 2. To verify that the relation R in the set L of all lines in a plane, defined by R = {(l, m) : l || m} is an equivalence relation. 3. To demonstrate a function which is not one-one but is onto. 4. To explore the principal value of the function $\sin^{-1}x$ using a unit circle. 5. To find analytically the limit of a function f (x) at x = c and also to check the continuity of the function at that point. 6. To understand the concepts of local maxima, local minima and point of inflection. 7. To understand the concepts of absolute maximum and minimum values of a function in a given closed interval through its graph. 8. To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner. 9. To understand the concepts of decreasing and increasing functions. 10. To find the time when the area of a rectangle of given dimensions becomes maximum, if the length is decreasing and the breadth is increasing at given rates. NOTE: Complete all these activities in your Mathematics Practical File during holidays. Write neatly and draw diagrams where required. Submit your file on the first day after school reopens.

ENGLISH	**Chapter: Lost Spring (Flamingo)**
	Project Title: "Lost Childhoods, Silent Stories"
	Note: Following are few components of the project and students can opt any two of the following.
	Project Components
	1. Story Scrapbook: "Two Worlds, One Reality"
	• **Create a scrapbook** (physical or digital) with two sections:
	  ○ **Part 1: Saheb-e-Alam – The Ragpicker**
	  ○ **Part 2: The Bangle Maker's Son – From Firozabad**
	• Include:
	  ○ A brief profile of each child (name, age, daily life)
	  ○ Images or sketches showing their world
	  ○ Quotes from the chapter with your commentary
	
	Note: *Add a page at the end called "My Reaction" — share how their lives made you feel and what you learned.*

2. Photojournalism Mini-Project (Creative Fieldwork)

- **Step outside** (with permission) and observe:
  - Do you see children working in any form of labor?
  - Are there children who don't go to school?
- **Click 2–3 photos** (only if allowed and safe to do so), or describe what you saw in a journal-style entry.
- Reflect: What would you say to those children if you could?

***Note**: This is an observational and awareness task. Never approach children or take photos without consent.*

3. Role play or Monologue

- Write a **monologue** from the point of view of:
  - Saheb or
  - The child from Firozabad
- Perform it at home or record a video (2–3 minutes)
  - Express their dreams, their pain, and their hopes for a better future.

4. Campaign for Change: "Voices for the Voiceless"

- Design a **mini social awareness campaign** (poster, pamphlet, or Instagram post-style slide deck):
  - Theme: "Let Them Learn, Not Earn"
  - Use real slogans or create your own
  - Add facts/statistics about child labor
  - Suggest 2–3 things that *students* can do to help

5. Reflective Journal Prompt

Write on this topic:

"If I could give Saheb one gift this spring, what would it be, and why?"

(250–300 words)

Encourage empathy and imagination.

Assessment Rubric

Task	Marks
Story Scrapbook	10
Photo journal/Observation	10
Monologue/Role play	10
Social Campaign	10
Reflective Journal	10