



तत् त्वं पूषन अपावृणु

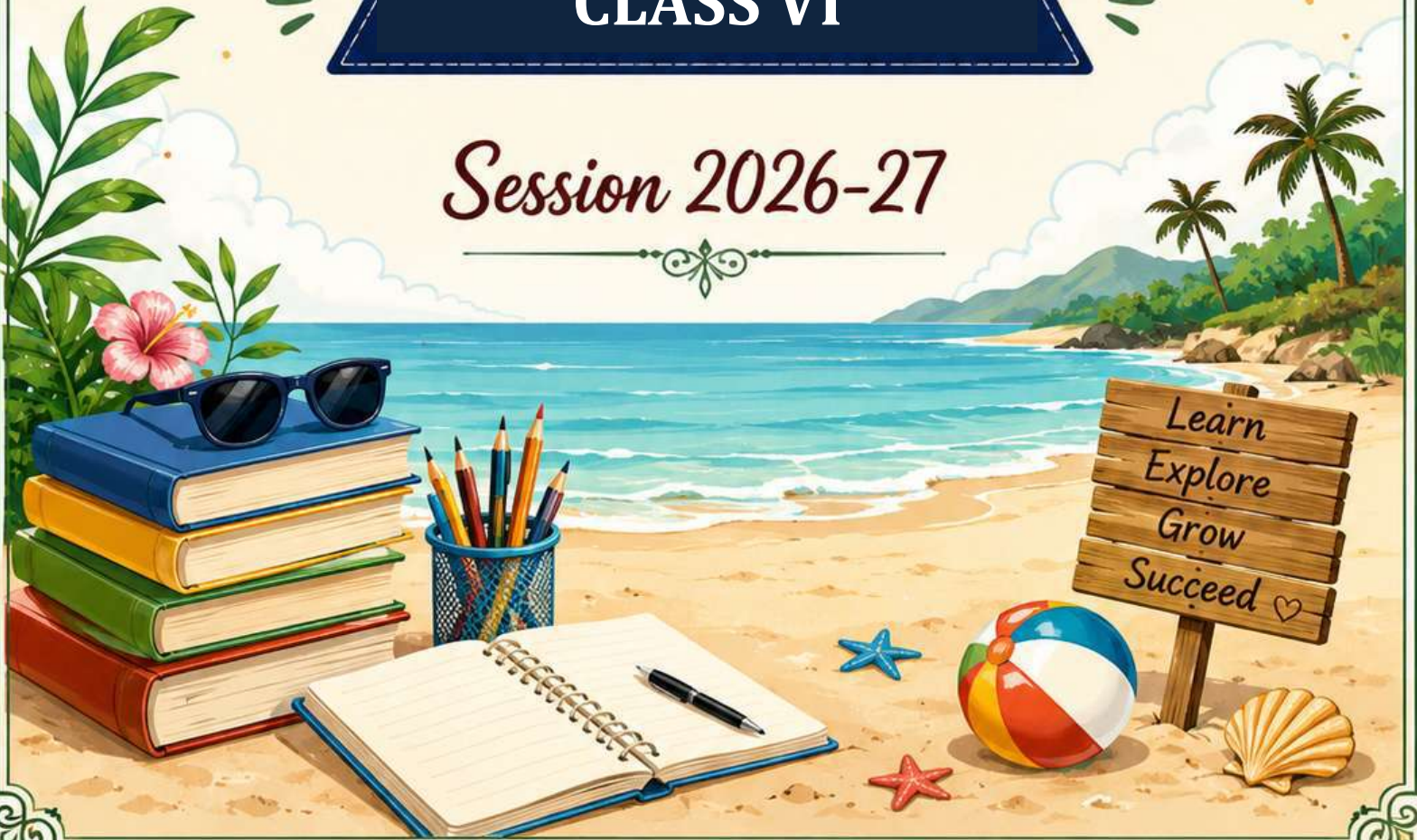


PM SHRI KENDRIYA VIDYALAYA NO. 2, BINNAGURI CANTT

Summer Vacation Holiday Homework

CLASS VI

Session 2026-27



PM SHRI KENDRIYA VIDYALAYA NO 2

BINNAGURI CANTT

SUMMER HOLIDAY HOMEWORK CLASS VI A

1. Picture based story narration-;

Look at the following pictures and write a short story based on any one. Your story must have a **TITLE** and a **MORAL**. [Any one- COPY]



2. Art integration-: **Origami**

Using Origami prepare any two objects. Stick them in your copy and write few lines on it.[COPY]

3. Practice the following words daily and be ready to spell them aloud in the **Spell Bee**

Competition -;[COPY]

 SPELL BEE WORD LIST (CLASS 6 – POORVI BASED)

 Set 1: Everyday & Lesson-Based Words (1–15)

Curious, Whisper, Journey, Wonder, Village, Forest, River, Mountain, Clever, Honest, Brave, Quiet, Shadow, Basket, Garden

 Set 2: Story & Nature Words (16–30)

Adventure, Discovery, Creature, Shelter, Hunter, Farmer, Market, Pathway, Sunrise, Sunset, Breeze, Thunder, Lightning, Season, Weather

 Set 3: Value & Character Words (31–40)

Kindness, Friendship, Respect, Courage, Responsibility, Happiness, Honesty, patience, Effort, Success

 Set 4: Slightly Difficult Words (41–50)

Beautiful, Different, Favourite, Important, Knowledge, Comfortable, Environment, Education, Interesting, Dangerous

4. .MDP [To be done in a file]

Topic-; **TEA ESTATES IN BENGAL**

1. INTRODUCTION TO TEA ESTATES

- Origin and development during British Colonial rule in India.

2. HISTORY OF TEA PLANTATIONS

- Famous tea regions of India- Darjeeling, Dooars, Terai
- Growth and importance of Tea Industry In Bengal

3. LIFE OF TEA GARDEN WORKERS

- Role of men and women
- Their daily routine and responsibilities
- Living conditions and challenges.

4. PROCESS OF TEA PRODUCTION

- STEPS ; plucking, withering, rolling
- Fermentation – Drying
- Types Of Tea- Green, Black , White
- [stick pictures of tea estates, tea plants, factories with real dried plants]

CLASS 6: ENGLISH

HOLIDAY HOMEWORK

May - June 2026

1



READING ACTIVITY

- Read one storybook.
- Write Title, Author, Characters, Summary (8-10 lines), Moral.
- Draw your favourite scene.



1

2

CREATIVE WRITING

- Write a paragraph (80-100 words).
- Topics: My Summer Vacation, My Favourite Teacher, If I Were a Bird, OR A Day Without Mobile.



3



GRAMMAR FUN

- Write 10 sentences for each:
 - Nouns
 - Pronouns
 - Tenses
- *Bonus:* Write 5 WH-questions.



3

4

word

VOCABULARY BOOST

- Collect 20 new words.
- Write meanings and use in sentences.
- Create a vocabulary chart.

explore

explore

discover

discover

journey

4

5

SPEAKING ACTIVITY

- Prepare a short speech (1-2 mins).
- Topics: Myself, My School, OR My Best Friend.



5

6

POEM ACTIVITY

- Learn a new poem.
- Write it neatly.
- Underline rhyming words.
- Write the theme (4-5 lines).



IMPORTANT RULES & GUIDELINES

- Work neatly & colorfully!
- Complete all tasks.
- Submit after holidays.
- Do your own work & revise!
- Be clean & creative.



गर्मियों की छुट्टियों का गृहकार्य कक्षा-6

1. पाठ 1, 2, 3, 4 पढ़ें व प्रश्न -उत्तर याद करें I
2. स्वरचित कहानी , कविता , गाना या अन्य रचना लिखो I
3. पहली बूंद कविता कंठस्थ करें I
4. अपनी पसंदीदा ऋतु पर 10 पंक्ति लिखें I
5. प्रतिदिन हिंदी समाचार पत्र पढ़ें I
6. पेड़ों का महत्व और मेरा प्रिय खेल विषय पर अनुच्छेद लिखें I
7. फ्रीस माफ्री के लिए विद्यालय के प्राचार्य को प्रार्थना पत्र लिखें I और जन्मदिन पर मिले उपहार के लिए चाचा जी को धन्यवाद पत्र लिखें I
- 8 'मातृभूमि' कविता में भारत का सुंदर वर्णन किया गया है I आप भारत के किस स्थान पर रहते हैं ? वह स्थान आपको कैसा लगता है ? उस स्थान की 10 विशेषताएं लिखें I

MDP -1 भोजन से सम्बंधित 10 पहेलियाँ लिखो और उनके चित्र भी चिपकाओ I

2 किन्हीं 4 जंक फूड का नाम लिखो व चित्र चिपकाओ I जंक फूड का हमारे स्वास्थ्य पर क्या

प्रभाव पड़ता है 10 पंक्ति लिखें I

नोट - लिखने का सभी कार्य अलग से 10 रुपये वाली कॉपी में करें I

SANSKRIT CLASS 6
SUMMER VACATION HOMEWORK

1.वर्णमाला अभ्यासः

स्वर (अ-ः) और व्यंजन (क-ह) की सुंदर लिखावट में अभ्यास करें।
संयुक्ताक्षरों (त्र, क्ष, ज्ञ आदि) को लिखें

2. शब्द रूप और धातु रूपः

शब्द रूपः बालकः, वृक्षः, गजः, बालिका, वैद्या, अजा, पत्रम्, चक्रम्, पुस्तकम् प्रत्येक के एकवचन, द्विवचन, बहुवचन रूप लिखें।
धातु रूपः पठ् (पढ़ना) पठति, पिबति, खादति, गच्छति, क्रीडति - लट् लकार (वर्तमान काल) में रूप लिखें।

3. संस्कृत में परिचय लेखनः

"मम परिचयः" संस्कृत में 5-6 वाक्यों में लिखें। (उदाहरणः मम नाम आरवः अस्ति।
अहं षष्ठः कक्षायाम् पठामि।)

4.चित्र वर्णन (चित्र के अनुसार संस्कृत में वाक्य लेखन)

5.संस्कृत में गिनती 1 से 50 तक लेखन (पृष्ठ संख्या-143)

6.संस्कृत में शरीर के अंगों के नाम (पृष्ठ संख्या- 155)

7. संस्कृत में फूलों के नाम (पृष्ठ संख्या- 85)

8. संस्कृत में रंगों के नाम (पृष्ठ संख्या-81)

9.पाठ्यपुस्तक अभ्यासः

पाठ 1 का पुनः पाठ करें तथा कापी में लिखें।
दी गई अभ्यास पुस्तिका के प्रश्न हल करें।

Class 6 Science Holiday Homework

Chapter 1: The Wonderful World of Science

Knowledge-Based Questions:

1. Define science in your own words.
2. Write any five uses of science in daily life.
3. Name three scientists and their inventions/discoveries.
4. What is observation in science? Give one example.
5. Differentiate between hypothesis and experiment.

Activities: Draw Scientific Instruments and Write Scientist Names with one use of it ? (use chart paper or A4 paper)

Chapter 2: Diversity in the Living World

Knowledge-Based Questions:

1. What is biodiversity?
2. Differences between plants and animals.
3. What are habitats?
4. Define herbivores, carnivores, omnivores.
5. What is adaptation?

Activities:

Draw Food chain diagram. (use chart paper or A4 paper)

Chapter 3: Mindful Eating – A Path to a Healthy Body

Knowledge-Based Questions:

1. What is balanced diet?
2. Name all the components of food. Define each component and write two sources of each. Also draw or paste pictures of food items related to them.
3. Why is water important for us?
4. What is junk food?
5. What is good Eating habits.

Activities:

Draw and prepare a “Perfect Diet Chart” for 7 days (Monday to Sunday).

OPTIONAL - Make a working model of a “Volcano Eruption” and explain the science behind it.

“Summer vacation is a time to relax, explore, and discover the wonders around you. Keep observing, keep questioning, and keep learning—because science is everywhere!” 🧐🔍🌟

“Happy Summer Holidays! 🍷

PM SHRI KENDRIYA VIDYALAYA NO. 2, BINNAGURI CANTT

SUBJECT – MATHEMATICS

SUMMER VACATION HOMEWORK – 2026

CLASS - VI

Ist Week	1. Fill in the blanks in the given pattern : (i) 2,4,6,8, ... ,..... ,..... . (ii) 3,5,7,9, ... , ... ,..... . (iii) 1,3,6,10, ... , ... , ... (iv) 1,4,9,16 ,..... , ... , ... (v) 1,2,3,5,8, ... ,..... ,..... . (vi) 1,3,9,27, ... , ... , ... 2. Expand the following pattern up to 10 numbers (a) 1= 1 (b) 1 + 3 = 4 (c) 1 + 3 + 5 = 9 (d) (e) (f) (g) (h) (i)																																
IIInd Week	3. Expand the following pattern up to 15numbers : (a) 1 = 1 (b) 1+2+1 = 4 (c) 1+2+3+2+1 =9 (d) (e) (f) (j) (k) (g) (h) 4. Define the following : (a)Natural number (b) Whole number (c) Even number (d) Odd number (e) Prime number (f) Composite number (g) Triangular number (h) RegularPolygon (i) Virahanka number 5 . Complete the following table for polygon <table><tr><th>Number of Sides</th><th>Name of regular polygon</th><th>Measure of each interior angle</th><th>Fig. of polygon</th></tr><tr><td>3 Sides</td><td></td><td></td><td></td></tr><tr><td>4 Sides</td><td></td><td></td><td></td></tr><tr><td>5 Sides</td><td></td><td></td><td></td></tr><tr><td>6 Sides</td><td></td><td></td><td></td></tr><tr><td>7 Sides</td><td></td><td></td><td></td></tr><tr><td>8 Sides</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>	Number of Sides	Name of regular polygon	Measure of each interior angle	Fig. of polygon	3 Sides				4 Sides				5 Sides				6 Sides				7 Sides				8 Sides							
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3 Sides																																	
4 Sides																																	
5 Sides																																	
6 Sides																																	
7 Sides																																	
8 Sides																																	
IIIrd Week	6. Compare using > = < : (a) 34872 __ 34900 (b) 87945 __ 78945 (c) 724582 __ 88899 (d) 206006 __ 116116 (e) 846470 __ 847740 (f) 42358 __ 423580 (g) 304560____ 345269 (h) 3045 __ 3321 (i) 97542 ____95724 7. Arrange the given numbers in ascending order. (a) 58,992; 59,228; 8,59,992; 1,54,992 (b) 7,96,441; 8,96,441; 7,99,641; 8,59,821																																

PM SHRI KENDRIYA VIDYALAYA NO. 2, BINNAGURI CANTT

SUBJECT – MATHEMATICS

SUMMER VACATION HOMEWORK – 2026

CLASS - VI

	(c) 6,89,774; 6,78,940; 7,18,444; 5,68,710 (d) 3,80,751; 3,36,547; 3,98,694; 3,26,880 (e) 5,56,442; 5,26,452; 5,95,442; 5,34,561 8. Arrange the given numbers in descending order. (a) 71, 800; 40,875; 72,984; 6,98,504 (b) 8,63,019; 8,60,548; 8,65,881; 8,59,004 (c) 6,30,062; 1,63,050; 8,39,035; 5,69,204 (d) 3,80,651; 3,37,547; 3,90,694; 3,36,880 (e) 8,56,422; 8,26,452; 8,95,442; 8,34,561 9. Use the given digits without repetition and make the greatest and smallest numbers. (a) 2, 8, 7, 4 (b) 9, 7, 4, 1 (c) 4, 7, 5, 0 (d) 1, 7, 6, 2 (e) 5, 4, 0, 3 (f) 3, 5, 8, 0, 1
IVth Week	10. Rewrite the following numbers placing comma (,) as per the Indian system: (i) 645367 (ii) 50301268 (iii) 436405 (iv) 3268431 (v) 2414360 11. Write the following in figures. (i) Six million, four hundred and eleven thousand, two hundred and sixty (ii) Sixty-five million, one hundred and sixteen thousand, five hundred and five (iii) Six hundred thousand, two hundred and fifteen (iv) One hundred and sixteen million, One hundred and ten thousand, and thirty-nine (v) Fifty-five million, four hundred and sixty thousand, nine hundred and two 12. Make two magic squares with the help of numbers.
Vth Week	13. The following series follows a fixed pattern: 2, 3, 3, 4, 4, 4, 5, 5, 5, 5, 6, ... If the pattern continues, determine how many times the number 9 appears in the NEXT 20 terms. 14. What will come in place of "?" in the given series? 15. What will come in place of "?" in the given series?
VIth Week	16. Make a Rangoli (Geometry art project) with the help of shapes, lines and angles. 17. Draw a map of your Dream House and colour it.

CLASS VI B

MATH

Make 3D models of 3 cube numbers, 3 triangular numbers and one hexagonal number

CLASS 6

SOCIAL SCIENCE

SUMMER HOLIDAY HOMEWORK

MAY – JUNE 2026

1. TIMELINE ACTIVITY

Create a simple timeline of your life.

Include:

- ★ Birth
 - ★ First day of school
 - ★ Important events
-

2. EARLY HUMANS

Write 8–10 lines on:

How early humans lived
Tools they used

Draw a related picture.

3. MY EARTH STUDY

Draw and label:

Continents
Oceans

4. MY COMMUNITY

List the people who help us in our community and write their roles.

5. COMPARE & WRITE

Write the difference between village life and city life.

Class 6 AI Holiday Homework

Make a colorful & Creative poster on :

- 1) Types of AI [Only for roll no. 1 to 10]
- 2) Different AI Applications [Only for roll no. 11 to 20]
- 3) Types of Robots [Only for roll no. 21 to 30]
- 4) Jobs in the field of AI [Only for roll no. 31 to 40]

(Note: Do this on a Chart Paper.)



तत् त्वं पूषन अपावृणु

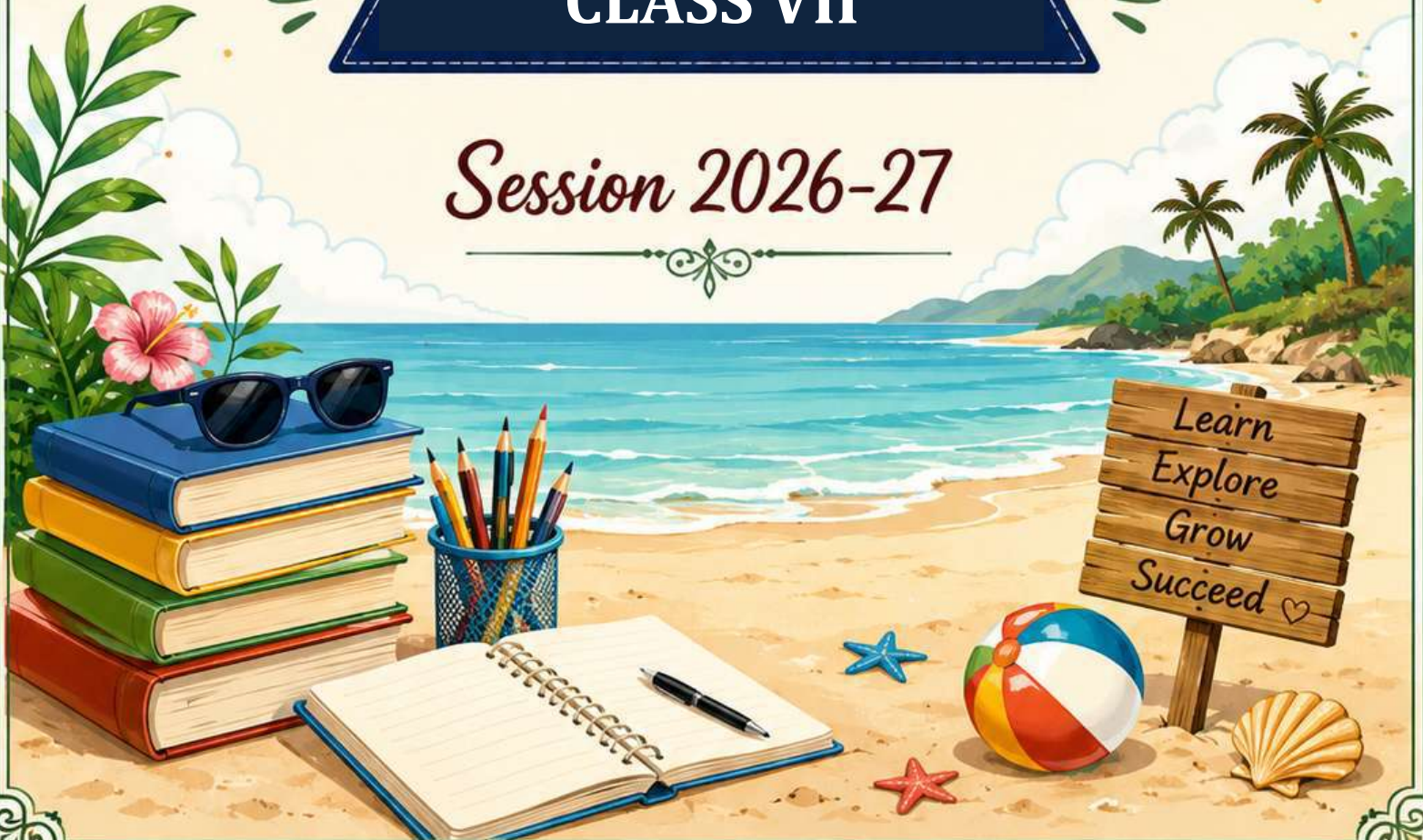


PM SHRI KENDRIYA VIDYALAYA NO. 2, BINNAGURI CANTT

Summer Vacation Holiday Homework

CLASS VII

Session 2026-27



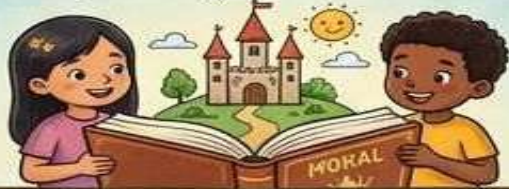
CLASS 7- ENGLISH

SUMMER HOLIDAY HOMEWORK (2026)

PM SHRI KV NO.2 BINNAGURI CANTT.

1. READING EXPLORER

Read a storybook. Write title, author, characters, summary, and moral. Draw a scene.



TITLE _____

AUTHOR _____

SUMMARY _____

2. CREATIVE WRITING

Write 120-150 words on any topic: holidays, time travel, invisible day, mysterious place.



3. GRAMMAR CHALLENGE

Write sentences using parts of speech, tenses, active-passive voice. Bonus: modals.

Subject → Verb → Object

A →

Passive Voice

Subject → Verb
Object → Exp.



4. VOCABULARY POWER

Learn 25 words, meanings, and sentences. Make a creative word chart.

Word List

Explore
cunvet
word
wordst
werna,
sturn.



5. SPEAKING SKILLS

Prepare a 2-minute speech: dream career, education, or favourite book.



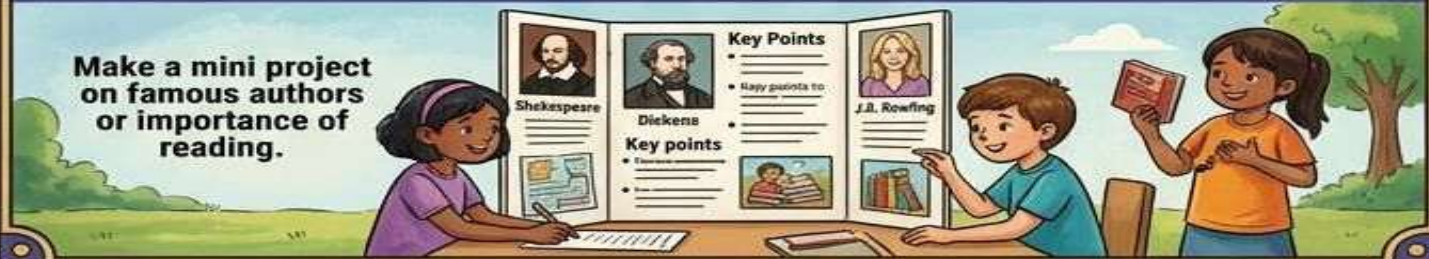
6. POETRY TASK

Learn a poem, write it, underline rhyming words, and explain theme.



7. PROJECT WORK

Make a mini project on famous authors or importance of reading.



Submission: Neat, creative, complete work. Submit after holidays.

Note: Do your work yourself. Revise before submission.

कक्षा 7-8

(पुस्तक - मल्हार)

(क) गतिविधि आधारित कार्य (60%)



पठन (8 दिन)

1. आज आपने जो कहानी/कविता पढ़ी, उसका नाम लिखिए।
2. 5 वाक्यों में उसका सार लिखिए।
3. आपको उसमें सबसे अच्छा क्या लगा? (2 वाक्य)



लेखन (8 दिन)

1. "मेरा पसंदीदा दिन" पर 10 वाक्य लिखिए।
2. "यदि मैं शिक्षक होता/होती..." पर 10 वाक्य लिखिए।
3. प्रतिदिन 5 नए शब्द लिखिए और उनसे वाक्य बनाइए।



वाचन/वक्तृत्व (6 दिन)

1. अपने परिवार के बारे में 1 मिनट बोलिए।
2. अपने गांव/शहर का वर्णन कीजिए।



जीवन-कौशल (4 दिन)

1. आज आपने घर में कौन-सा कार्य किया? (5 वाक्य)
2. एक दिन बिना मोबाइल बिताकर अनुभव लिखिए (5 वाक्य)

(ख) पुस्तक + चित्र आधारित कार्य (40%)



पुस्तक - मल्हार (10 दिन)

1. किसी एक पाठ का नाम लिखिए।
2. 5 वाक्यों में उसका सार लिखिए।
3. एक पात्र का नाम लिखिए और उसका वर्णन 5 वाक्यों में कीजिए।
4. इस पाठ से आपको क्या सीख मिली? (3 वाक्य)



चित्र आधारित कार्य (10 दिन)

1. चित्र का वर्णन 10 वाक्यों में कीजिए।
2. चित्र पर 8-10 वाक्यों की कहानी लिखिए।
3. चित्र के पात्रों के बीच संवाद लिखिए (5-6 पंक्तियों)।

सीखें
समझें
बढ़ें

पढ़ें ♦ लिखें ♦ सोचें ♦ सीखें ♦ आगे बढ़ें ♦

विषय-संस्कृत

ग्रीष्मकालीन अवकाश:

1. पठ्, लिख्, हस्, नम्, क्रीड् धातुओं का लट्, लृट्, लङ्, लोट्, विधिलिङ्ग लकारों के प्रत्ययों को जोड़ कर धातुरूप बनाइये।
2. गृह जनानां मित्राणां वा साहाय्येन पंचदश (15) गृह वस्तुनामानि लिखन्तु। (घर के लोगो अथवा मित्रों की सहायता से (15) घर की वस्तुओं के नाम लिखे।)
3. अस्मद्, युष्मद्, तद् (तीनों लिंगों में) शब्दयोः सर्वाणि रूपाणि सफोरक पत्रं लिखन्तु। (अस्मद्, युष्मद्, तद् शब्द के सभी रूप तालिका में लिखे।)
4. मात्रा-पित्रा सह चर्चा कृत्वा कर्ता, क्रिया प्रयोगेण 10 संस्कृते वाक्यं लिखन्तु। (माता-पिता के साथ चर्चा करके कर्ता और क्रिया के प्रयोग से 10 संस्कृत में वाक्य लिखिए।)
5. शिष्टाचारस्य विषये पञ्चानां श्लोक कानां संग्रहं कुर्वन्तु स्मरन्तु च। (शिष्टाचार के विषय में पांच श्लोकों का संग्रह बनाइये और उसे याद करें।)
6. अधः प्रदत्तेषु महा पुरुषेषु एकस्य लघु जीवन वृत्तं संस्कृते लिखन्तु। (निचे लिखे महापुरुषों में से किसी एक के जीवन परिचय लिखिए।)

1 स्वामी विवेकानंदः

2 महाऋषि पाणिनि

3 महाकवि कालिदासः



SCIENCE HOLIDAY HOMEWORK



CLASS – VII

Explore, Experiment, Create and Learn!

1. ACTIVITY – TURMERIC INDICATOR GREETING CARD

Make a creative greeting card using turmeric indicator.

AIM:

To prepare a turmeric indicator and test substances using it.

MATERIALS REQUIRED:

Turmeric powder, water, paper (card), soap solution / baking soda solution, brush / cotton bud.

PROCEDURE:

- Mix turmeric with water to make a paste.
- Take a paper and fold it like a greeting card.
- Use soap solution or baking soda solution to write or draw a message on the front of the card.
- Let it dry.
- Observe the colour change.



IDEA:

Write a message like "BE KIND", "STAY HAPPY", "STAY POSITIVE" or any positive message or draw a picture.

OBSERVATION TABLE:

SUBSTANCE USED (Any basic substance)	COLOUR CHANGE	NATURE (Acid/Base/Neutral)

RESULT:

Turmeric is a natural indicator. It changes colour in the presence of bases.



2. CREATIVE ELECTRIC CIRCUIT MODEL

Be creative and make any working model using electric circuit from your own idea.

These are some examples to help you.
You can make anything you like!

GLOWING HOUSE MODEL



STREET LIGHT MODEL



TORCH MODEL



TRAFFIC SIGNAL MODEL



MORE IDEAS:



3. WRITE THE NATURE (ACID / BASE / NEUTRAL) OF THE FOLLOWING SUBSTANCES:

- | | |
|-------------------------|-----------------------------|
| • Lemon – _____ | • Sugar solution – _____ |
| • Baking soda – _____ | • Toothpaste – _____ |
| • Salt solution – _____ | • Turmeric solution – _____ |
| • Soap – _____ | • Milk – _____ |
| • Vinegar – _____ | • Lime water – _____ |

4. WRITE ANY 5 CONDUCTORS AND 5 INSULATORS USED IN DAILY LIFE.

CONDUCTORS –

1. _____ 2. _____ 3. _____
4. _____ 5. _____

INSULATORS –

1. _____ 2. _____ 3. _____
4. _____ 5. _____

SUBMISSION GUIDELINES



Maintain a neat and well-organised Science copy/file.



Use colours, diagrams and creativity wherever needed.



Do all the work yourself using simple materials available at home.



Label all diagrams and models clearly.



Complete any ONE option from each section.



Submit the homework after the summer holidays.

Learning is Fun when you Explore, Experiment and Create!

CLASS VII

MATH

Do 50 BODMAS sums based on bracket shifting and commutative property.

Make a chart as have been described in class based on comparison of fractions

Class 7 AI Holiday Homework

Make a project on the topic **“Tesla Autopilot: The Self driving Car”**.

You can mention following points:

- Introduction
- History, How it was made
- Hardware components used
- How it works
- Full Self driving capability
- Driving features
- Safety & Concerns
- Advantages & limitations
- Availability & Price



(Note: Do this on A4 sheets. You can make creative & colourful)

CLASS VII SOCIAL SCIENCE

SUMMER HOLIDAY HOMEWORK

MAY – JUNE 2026

Social Science

1. GEOGRAPHICAL DIVERSITY OF INDIA

India is a land of great geographical diversity.

Do the following:

On an outline map of India, mark and label:

- Mountains
- Plateaus
- Plains
- Deserts
- Islands
- Coastal Plains

Write 8–10 lines on the geographical diversity of India.

2. WEATHER AND CLIMATE

Write the difference between Weather and Climate.

3. PHYSICAL FEATURES OF INDIA

Which three physical features of India do you like the most?
Why do you like them? Give reasons.

Write 6–8 lines in your own words.

Think and write in your own words. Do not copy from the book.

4. WEATHER REPORT ACTIVITY

Make a weather report from 10th May to 20th May.

Draw a chart like the one given below in your Social Science copy.

WEATHER REPORT (10th MAY – 20th MAY)



तत् त्वं पूषन अपावृणु

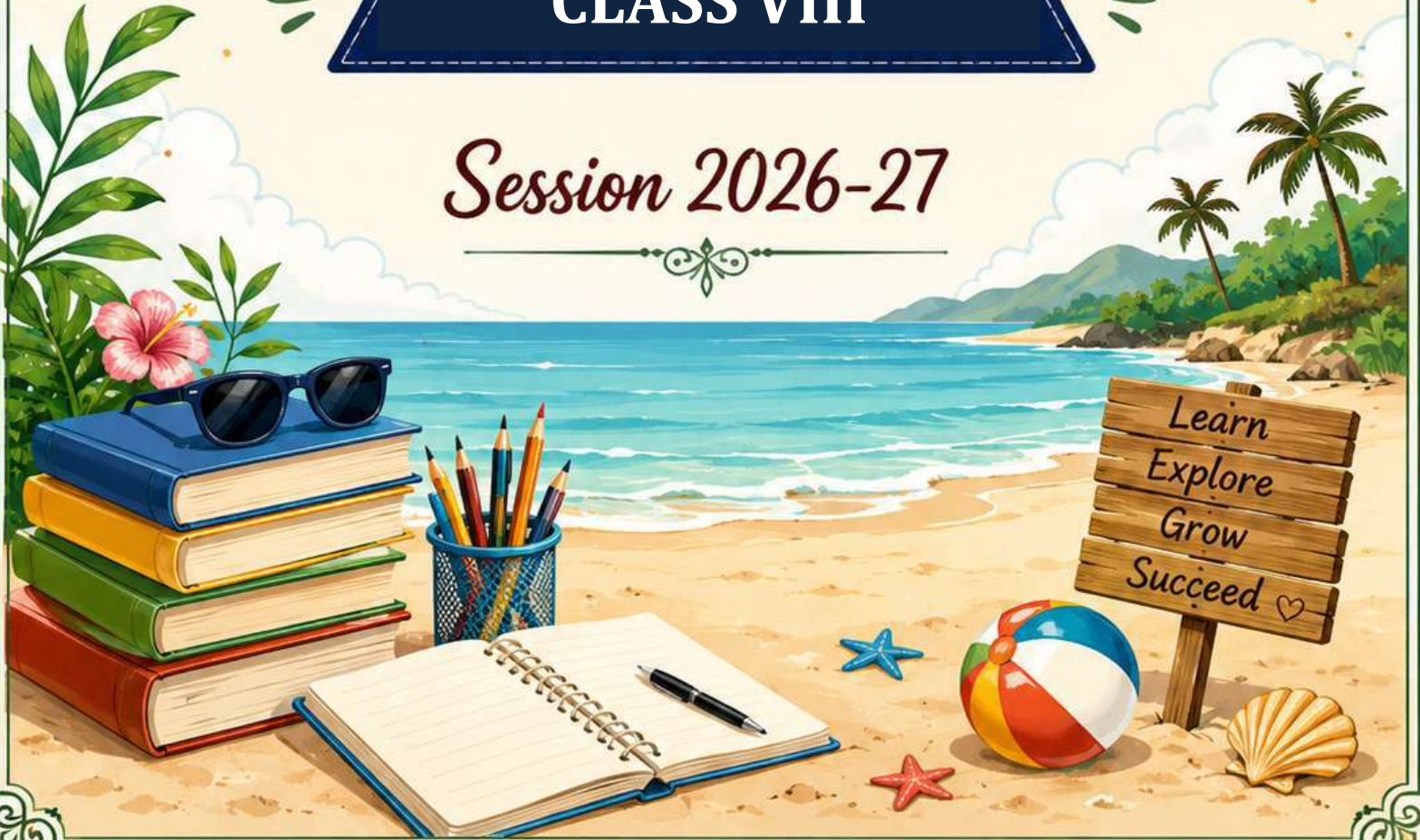


PM SHRI KENDRIYA VIDYALAYA NO. 2, BINNAGURI CANTT

Summer Vacation Holiday Homework

CLASS VIII

Session 2026-27



SUMMER HOLIDAY HOMEWORK CLASS VIII A & B

1. UNSEEN PASSAGE-

- Solve the two unseen passages.

[Passage is sent in the group] [copy]

2. Practice the following words daily and be ready to spell them aloud in the **Spell Bee Competition**. [copy]

 SPELL BEE WORD LIST – CLASS 8 (Poorvi Based, 50 Words)

 Set 1: General & Lesson Vocabulary (1–15)

Curious, Courage, Journey, Freedom, Knowledge, Respect, Wisdom, Courageous, Determined, Honest, Responsible, Valuable, Important, Beautiful, Different

 Set 2: Nature & Environment (16–30)

Environment, Pollution, Conservation, Wildlife, Forest, Climate, Temperature, Hurricane, Drought, Flood, Ecosystem, Resources, Sustainable, Natural, Geography

 Set 3: Character & Values (31–40)

Kindness, Friendship, Honesty, Discipline, Patience, Responsibility, Confidence, Perseverance, Motivation, Achievement

 Set 4: Difficult & Tricky Words (41–50)

Accommodation, Acknowledgement, Beginning, Calendar, Communication, Competition, Dictionary, Electricity, Necessary, Separate

3. Collect leaves of any 5 medicinal plants. Write their 2 uses and scientific names. [A4 SHEET]

4.MDP [To be done in a file]

FLOOD MANAGEMENT IN THE RIVERS OF NORTH BENGAL

1. INTRODUCTION TO FLOODS-

- What is a Flood
- Causes of Floods [Heavy rainfall, river overflow]
- Why North Bengal is flood- prone

2. MAJOR RIVERS OF BENGAL-

- Important Rivers- Teesta, Mahananda, Jaldhaka, Torsa

- [support your project with pictures, innovative presentations and creativity]



कक्षा 7-8

(पुस्तक - मल्हार)

(क) गतिविधि आधारित कार्य (60%)



पठन (8 दिन)

1. आज आपने जो कहानी/कविता पढ़ी, उसका नाम लिखिए।
2. 5 वाक्यों में उसका सार लिखिए।
3. आपको उसमें सबसे अच्छा क्या लगा? (2 वाक्य)



लेखन (8 दिन)

1. "मेरा पसंदीदा दिन" पर 10 वाक्य लिखिए।
2. "यदि मैं शिक्षक होता/होती..." पर 10 वाक्य लिखिए।
3. प्रतिदिन 5 नए शब्द लिखिए और उनसे वाक्य बनाइए।



वाचन/वक्तृत्व (6 दिन)

1. अपने परिवार के बारे में 1 मिनट बोलिए।
2. अपने गांव/शहर का वर्णन कीजिए।



जीवन-कौशल (4 दिन)

1. आज आपने घर में कौन-सा कार्य किया? (5 वाक्य)
2. एक दिन बिना मोबाइल बिताकर अनुभव लिखिए (5 वाक्य)

(ख) पुस्तक + चित्र आधारित कार्य (40%)



पुस्तक - मल्हार (10 दिन)

1. किसी एक पाठ का नाम लिखिए।
2. 5 वाक्यों में उसका सार लिखिए।
3. एक पात्र का नाम लिखिए और उसका वर्णन 5 वाक्यों में कीजिए।
4. इस पाठ से आपको क्या सीख मिली? (3 वाक्य)



चित्र आधारित कार्य (10 दिन)

1. चित्र का वर्णन 10 वाक्यों में कीजिए।
2. चित्र पर 8-10 वाक्यों की कहानी लिखिए।
3. चित्र के पात्रों के बीच संवाद लिखिए (5-6 पंक्तियों)।

सीखें
समझें
बढ़ें

पढ़ें ♦ लिखें ♦ सोचें ♦ सीखें ♦ आगे बढ़ें ♦

ग्रीष्मकालीन अवकाश:

1. पद, लिख, हस्, नम्, क्रीड् धातुओं का लट्, लृट्, लङ्, लोट्, विधिलिङ्ग लकारों के प्रत्ययों को जोड़ कर धातुरूप बनाइये।
2. गृह जनानां मित्राणां वा साहाय्येन पंचदश (15) गृह वस्तुनामानि लिखन्तु । (घर के लोगो अथवा मित्रों कि सहायता से (15) घर की वस्तुओं के नाम लिखे।)
3. मासदिनानां नामानि संस्कृतेन लिखत । (महीनो और दिनों के नाम संस्कृत में लिखिए।)
4. अस्मद्, युष्मद्, तद् (तीनो लिंगों में) शब्दयोः सर्वाणि रूपाणि सफोरक पत्रं लिखन्तु । (अस्मद्, युष्मद्, तद् शब्द के सभी रूप तालिका में लिखे।)
5. शिष्टाचारस्य विषये पञ्चानां श्लोक कानां संग्रहं कुर्वन्तु स्मरन्तु च। (शिष्टाचार के विषय में पांच श्लोकों का संग्रह बनाइये और उसे याद करे।)
6. अधः दत्तस्य कस्मिन् अपि एकस्मिन् विषये निबन्धं लिखन्तु । (नीचे दिए गए विषयो में से किसी एक पर निबन्ध लिखे।)

1 महाभारतः

2 रामायणः

3 महाकवि कालिदासः

HOLIDAY HOMEWORK

SUMMER VACATION (08.05.2026 to 16.06.2026)

CLASS – VIII

SOCIAL SCIENCE

1. Map work-

(i) Label and locate states and union territories with their capitals on India Map and paste in your notebook.

(ii) Label and locate Continents and Oceans on World Map and paste in your notebook.

2. Write the Fundamental Rights and Fundamental Duties of the Indian Constitution.

3. Write about a tourist place of India which you like the most.

4. What is the main purpose of the International Solar Alliance (IASA), launched by India and France?

5. How can India avoid the 'Natural Resource Curse'?

7. Write a paragraph on World Environment Day (5 June).

8. What are renewable resources? How are they different from non-renewable ones?

9. What can people do to ensure that renewable resources continue to be available for our use and that of future generations? Give two examples.

9. Write about a local historical place nearby you.

10. Write and learn the 'Preamble' of the Indian Constitution.

11. What are some considerations to keep in mind in the production of goods for our current use?

12. 'Artificial Intelligence in Daily Life' write an essay on it.

HOLIDAY HOMEWORK

CLASS – VIII

SOCIAL SCIENCE

1. MAP WORK

(i)

Label and locate states and union territories with their capitals on India Map and paste in your notebook.

(ii)

Label and locate Continents and Oceans on World Map and paste in your notebook.

2.

Write the Fundamental Rights and Fundamental Duties of the Indian Constitution.

3.

Write about a tourist place of India which you like the most.

4.

What is the main purpose of the International Solar Alliance (ISA), launched by India and France?

5.

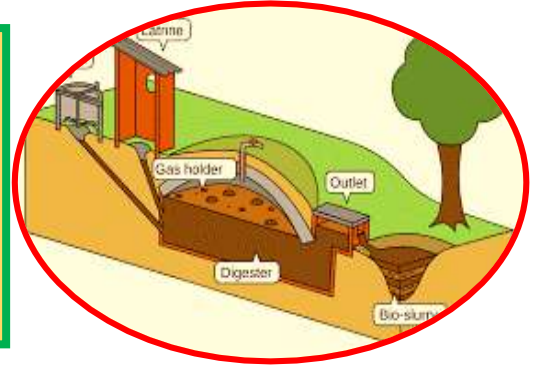
How can India avoid the “Natural Resource Curse”?

PM SHRI KV NO. 2 BINNAGURI CANTT
SUMMER VACATION HOMEWORK (2026-27)
CLASS VIII SCIENCE

INVESTIGATION

Q.1 India has a long history of biogas production. One of our oldest biogas plant was set up in late 1850s.

1. Find out about the Biogas Program initiated by the Ministry of New and Renewable Energy, Government of India.
2. Benefits of biogas .



Health and Nutrition:



Q.2 list some traditional food items from your area that utilise the process of fermentation.

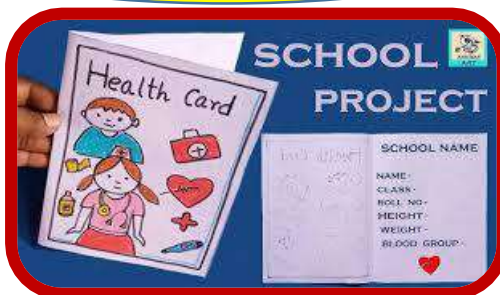
- Investigate the ingredients used in the preparation of these fermented food items; the method of preparing them; the microorganism responsible for the fermentation of the food.
- cultural and nutritional importance of the fermented food.

Scientists (Health & Medicine)



Q.3 Read and write about Indian scientists like Suniti Solomon, Asima Chatterjee, Dr. Yellapragada Subbarao, Dr. Mary Poonen Lukose for their contributions in the field of health and diseases

CREATIVITY



Q4. Design a Health Card

Task: Make your own Health Card.

Include:

- Name, Age, Blood Group Height and Weight
- Body Temperature, Pulse Rate
- Vaccination details
- Any illness or allergy

MDP TOPIC: FLOOD MANAGEMENT IN THE RIVERS OF NORTH BENGAL

- What are the main causes of floods in the rivers of North Bengal such as the Teesta River and Mahananda River?
- How does heavy rainfall and melting of glaciers increase the water level in rivers?
- What role does deforestation play in increasing the chances of floods?
- How do floods affect soil, crops, animals, and human life in nearby areas?
- What are the different methods used to control floods?
- How does planting trees (afforestation) help in reducing floods?
- What is the importance of early warning systems and weather forecasting in flood management?
- How can local people prepare themselves before and during a flood?
- What are some government measures taken to manage floods in North Bengal?
- How does climate change increase the frequency of floods?

MATH

Class 8

Do 50 sums on exponents simplifications using properties of exponents as taught in class

Class 8 AI Holiday Homework

Make a project on the topic **“ChatGPT”**. You can mention following points:

- Introduction
- How ChatGPT was made?
- How ChatGPT works?
- Features of ChatGPT
- Limitations of ChatGPT
- Model Versions of ChatGPT
- Applications
- What is Generative AI?
- Future of ChatGPT: How it may be modified

(Note: Do this on A4 sheets. You can make creative & colourful)



तत् त्वं पूषन अपावृणु

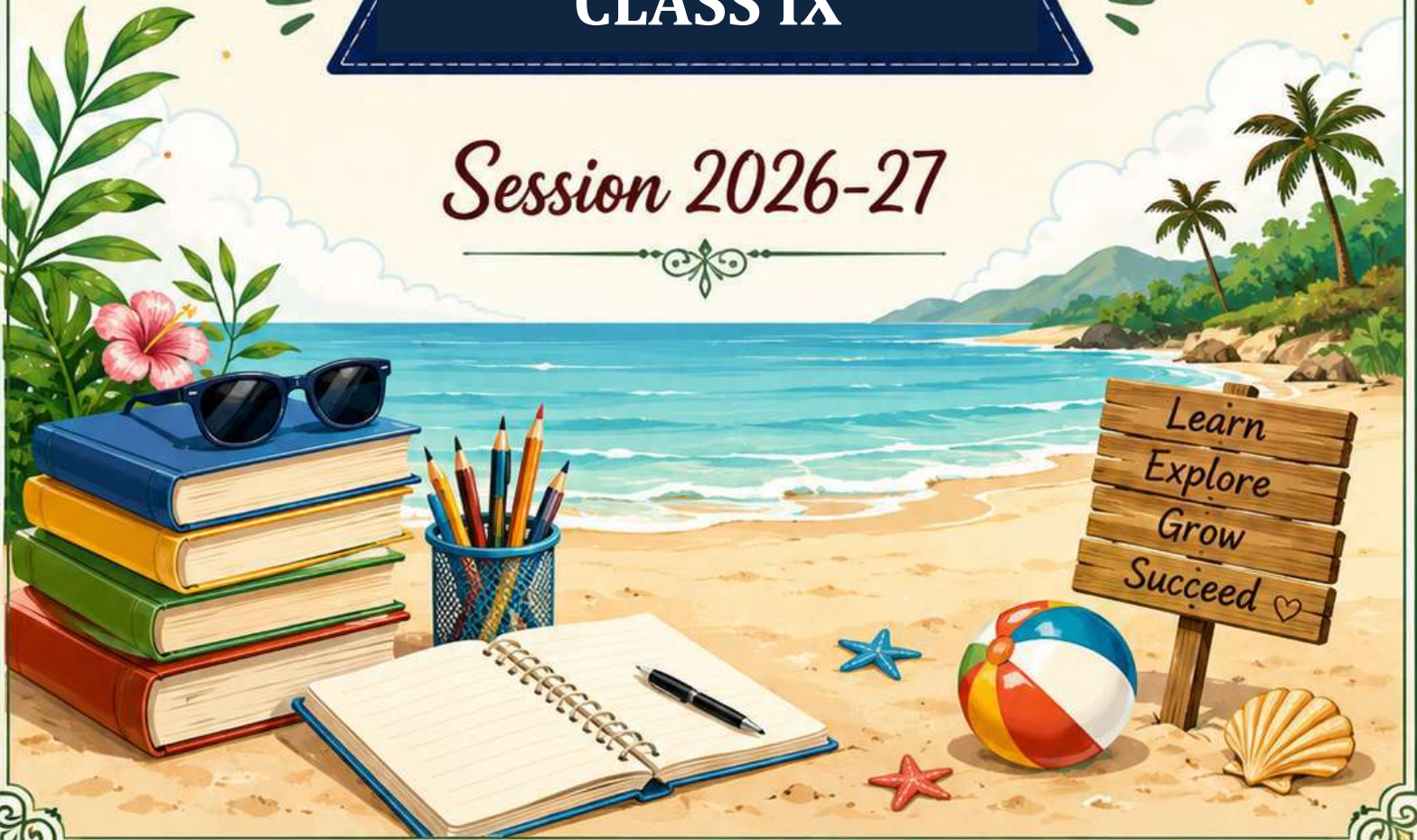


PM SHRI KENDRIYA VIDYALAYA NO. 2, BINNAGURI CANTT

Summer Vacation Holiday Homework

CLASS IX

Session 2026-27



SUMMER HOLIDAY HOMEWORK CLASS IX A & B

TASK 1

READ THE FOLLOWING CHAPTERS -;

UNIT 3- WINDS OF CHANGE

CANVAS OF SOIL

UNIT 4- VITAMIN-M

I CANNOT REMEMBER MY MOTHER

WRITE-;

- TITLE/ AUTHOR
- SUMMARY 120 WORDS
- CHARACTER SKETCH
- 10 NEW WORDS WITH MEANINGS

TASK 2

UNSEEN PASSAGE-[SENT IN THE GROUP]

Write the answers in the copy

TASK 3

WRITE AND LEARN- [SENT IN THE GROUP]

- TENSE CHART
- REPORTED SPEECH SENTENCES

To write the answers in the copy

TASK 4- [FILE] **PORTFOLIO**

PROJECT- IMPACT OF SOCIAL MEDIA ON THE MENTAL HEALTH OF TEENAGERS"

1. INTRODUCTION TO MENTAL HEALTH-
 - Meaning of mental health
 - Importance of teenage years
 - Difference between physical and mental health.
2. WHAT IS SOCIAL MEDIA ?
 - Definition and purpose
 - Uses of apps and their influence ; Instagram/ WhatsApp/ Youtube
 - How teenagers use social media
3. USAGE PATTERN AMONG TEENAGERS
 - Daily screen time

- Types of activities {chatting, videos, gaming}
 - Reasons for using social media
4. POSITIVE IMPACT ON MENTAL HEALTH
- Staying connected with friends
 - Learning new skills
 - Self- expression and creativity
 - Awareness about social issues
5. SURVEY/ CASE STUDY-[ATLEAST 6 INDIVIDUALS]



SURVEY QUESTIONS



Topic: Impact of Social Media on Teenagers



1. Basic Information

Age: _____

Class: _____

Gender (optional): _____

2. Do you use social media?

Yes / No

3.Which app do you use most?

Instagram / WhatsApp / YouTube / Others

4.How much time do you spend daily on social media?

Less than 1 hour

1–2 hours

2–4 hours

More than 4 hours



Positive Impact

5.Do you learn new things from social media?

Yes / No / Sometimes

6.Does social media help you stay connected with friends?

Yes / No

7.Do you use social media for studies or educational videos?

Yes / No / Sometimes



Negative Impact

8.Do you feel distracted from studies due to social media?

Yes / No / Sometimes

9.Have you ever felt stressed or anxious after using social media?

Yes / No

10.Do you compare yourself with others on social media?

Yes / No

11.Have you experienced or seen cyberbullying?

Yes / No

Behaviour & Health

12.Does social media affect your sleep?

Yes / No

13.Do you feel addicted to social media?

Yes / No / Sometimes

Awareness & Control

14.Do your parents/teachers guide you about social media use?

Yes / No

15.Do you think there should be a time limit on social media?

Yes / No

Opinion-Based

16.Is social media more helpful or harmful?

Helpful / Harmful / Both

17.One positive effect of social media: _____

18.One negative effect of social media: _____

After Survey (Important for Project)

Students should:

19.Make a table or graph

Write 5–6 lines conclusion

SPEECH – “ IMPACT OF SOCIAL MEDIA ON THE MENTAL HEALTH OF TEENAGERS”

कक्षा 9 (पुस्तक - गंगा)

(क) गतिविधि आधारित कार्य (60%)

मनोरंजन

(10 दिन)

1. शिक्षाप्रद किन्हीं तीन फ़िल्मों को देखिए और 150 शब्दों में उसका सारांश लिखिए।

लेखन

(10 दिन)

1. "सोशल मीडिया का प्रभाव" पर 120 शब्द लिखिए।
2. अपने भविष्य के लिए एक पत्र लिखिए (100 शब्द)।

वाचन/वक्तृत्व

(5 दिन)

1. "जल संरक्षण" विषय पर 2 मिनट बोलिए।

(ख) पुस्तक + चित्र आधारित कार्य (40%)



पुस्तक - गंगा

(10 दिन)

1. किसी पाठ का नाम लिखिए।
2. उसका मुख्य विषय 3 वाक्यों में लिखिए।
3. इस पाठ का आपके जीवन से क्या संबंध है? (3 वाक्य)



चित्र आधारित कार्य

(10 दिन)

1. चित्र का वर्णन 10 वाक्यों में कीजिए।
2. "जल संरक्षण" पर 8-10 वाक्य लिखिए।
3. स्वच्छ और प्रदूषित दृश्य में अंतर लिखिए (5 वाक्य)।



सोचें



समझें



लिखें



सीखें



आगे बढ़ें



HOLIDAY HOMEWORK

SUMMER VACATION (08.05.2026 to 16.06.2026)

CLASS – IX

SOCIAL SCIENCE

- 1. Map work (Label and locate states and union territories with their capitals on India Map and paste in your notebook)**
- 2. Write about on a local historical place nearby you.**
- 3. Write a paragraph on World Environment Day (5 June).**
- 4. “Democracy is considered better than other forms of government.” Justify the statement.**
- 5. Explain the scope of Social Science by describing Geography, History, Political Science, and Economics, and show how they overlap in real life.**
- 6. Write about the features of democracy.**
- 7. Explain the major causes of floods in India and suggest effective flood management measures.**
- 8. Describe the major seasons of India and explain the climatic conditions associated with each season.**
- 9. What are the main functions of the Election Commission of India?**
- 10. What are the challenges to free and fair elections in India?**
- 11. Write the Fundamental Rights and Fundamental Duties of the Indian Constitution.**
- 12. Write and learn the ‘Preamble’ of the Indian Constitution.**

Project work :-

Every student must undertake one project on Disaster Management.

Instructions:-

- 1. The Project Report can be handwritten in punch sheet Paper Size paper.**
- 2. Make Cover page with Title name, school Name, student name, Class, Roll Number.**
- 3. Give Introduction Brief about disaster management, Details of the Disaster: Causes,**

Effects, Areas affected, Example of a real disaster event, Lessons learned and importance of disaster management.

3. Use pictures, diagrams, or maps wherever possible, Add headings, subheadings, and bullet points for clarity.

4. Project Length should be 12–15 pages (including pictures)

PM SHRI Kendriya Vidyalaya No. 2 Binnaguri Cantt

Summer Vacation Home Work 2026–2027

Class IX – Mathematics

Very Short Answer Type Questions

1. What are the coordinates of the origin?
2. What is the coordinate of a point on the x-axis?
3. What is the coordinate of a point on the y-axis?
4. In which quadrant does the point $(-3, 5)$ lie?
5. What is the abscissa of the point $(4, -2)$?
6. What is the ordinate of the point $(4, -2)$?
7. What is the distance of point $(3, 0)$ from origin?
8. In which quadrant does the point $(-3, 5)$ lie?
9. What is the ordinate of all points situated on the x-axis?
10. Find the coordinates of the point that lies on the y-axis at a distance of 5 units in the negative direction.

Short / Long Answer Type Questions

1. Write coordinates of a point: (i) 3 units right of origin (ii) 5 units below origin.
2. Find distance between $(2, 0)$ and $(-3, 0)$.
3. Plot $A(2,3)$, $B(-2,3)$, $C(-2,-3)$, $D(2,-3)$. Name the figure.
4. Find distance between $A(3,4)$ and $B(7,1)$.
5. Find distance between $A(-2, 3)$ and $B(4, -5)$.
6. Check if $A(-3, -4)$, $B(0,0)$, $C(6,8)$ are collinear.
7. Find fourth vertex of rectangle with $(2,3)$, $(6,3)$, $(6,7)$.
8. Write the coordinates of the points M and N if perpendiculars PM and PN are drawn from $P(-6, 2)$ to the x-axis and y-axis, respectively.
9. Plot the points $P(-3, 2)$, $Q(-7, -3)$, $R(6, -3)$, and $S(2, 2)$. Name the figure obtained by joining them in order.

10. A city model has two main roads crossing at the center (Origin). Other streets are parallel to these, 200m apart. If 1cm = 200m, and the 2nd street N–S meets the 5th street E–W at (2, 5): (i) How many intersections can be referred to as (4, 3)? (ii) How many can be referred to as (3, 4)? (iii) Draw the model and mark these points.

11. Shalini uses a coordinate grid to help her brother Reiaan, who is visually impaired, navigate his room. The door is represented by points D(8,0) and R(11.5,0). How wide is the door? If a standard wheelchair requires a width of at least 3 feet, can a person in a wheelchair enter the room easily?

Subject Enrichment Activity

1. City Model Design: Design a "Smart City" layout on graph paper. Place essential services (Hospital, School, Park) at specific coordinates and calculate the shortest distance between them using the Baudhayana–Pythagoras theorem.

2. Mirror Image Investigation: Plot a simple shape (like a triangle) in Quadrant I. Then find the coordinates if the shape is reflected across the y-axis and the x-axis. Note your observation on how coordinate signs change in each reflection.

Section A – Competency Based Questions

1. Observation Based:

Riya kept one potato strip in plain water and another in concentrated salt solution for one hour. She observed that one strip became stiff while the other became soft.

- a) Which strip became stiff and why?
- b) Name the process responsible for this change.
- c) Explain the role of the cell membrane in this process.

2. Assertion–Reason

Assertion: Plant cells maintain a fixed shape.

Reason: Plant cells possess a rigid cell wall.

- a) Both Assertion and Reason are true and Reason correctly explains Assertion.
- b) Both Assertion and Reason are true but Reason does not explain Assertion.
- c) Assertion is true but Reason is false.
- d) Assertion is false but Reason is true.

Explain your choice.

3. Situation Based

A student observed cheek cells and onion peel cells under a microscope.

- a) Which cell would show a cell wall?
- b) Mention one structural feature common to both cells.

4. Experimental Skill

A carrot placed in concentrated sugar solution became limp after some time.

- a) What happened to the water inside carrot cells?
- b) Which type of solution is this?
- c) Predict what would happen if the carrot is now placed in plain water.

5. Application Based

Why are mitochondria called the “powerhouse of the cell”? Explain using an example from daily life.

6. Diagram Analysis

Draw a neat labelled diagram of a plant cell and answer:

- a) Which organelle stores food and pigments?
- b) Which structure controls movement of substances into and out of the cell?
- c) Which organelle contains genetic material?

7. Real-Life Connection

Why are pickles preserved in excess salt and jams preserved in excess sugar? Explain using the concept of osmosis.

8. Application of Cell Division

A cut on the skin heals after a few days.

- a) Which type of cell division is responsible for healing?
- b) Why is this process important?

9. Research-Based Question

Find out about one Indian scientist who contributed to cell biology or genetics. Write:

- name
- contribution
- importance of work

10. Creative Task

Make:

- 3D model of a plant/animal cell using eco-friendly materials.
- Poster on “Cell – The Building Block of Life”

Prepared by
SHAIL KUMARI
TGT Science

**PM SHRI KENDRIYA VIDYALAYA NO.2,
BINNAGURI CANTT**

Summer Vacation Holiday Homework (2026-‘27)

Class: IX

Sub.: Artificial Intelligence (417)

A: Research & Awareness (5 Marks)

Make a **scrapbook** or digital presentation (Google Slides or PowerPoint) on the topic:
“Artificial Intelligence in Everyday Life”.

Include:

- What is AI? (Definition in your own words)
- Examples of AI in:
 - Healthcare
 - Education
 - Smart Homes
 - Agriculture
 - Transport
- Benefits and risks of AI

Instructions:

- Prepare a PowerPoint presentation with **5–7 slides using Microsoft Powerpoint.**
- Use **images, icons, short bullet points**, and **simple explanations.**
- Be creative, but keep it clear and focused.
- Submit via pen drive, Google Drive, or printed slides (if needed).

B. AI Poster Making – “AI Around Me”

Objective: Combine creativity and real-life observation.

- Option 1: "Artificial Intelligence: The Future is Now" (Roll no: From 1 to 8)
- Option 2: "AI in Daily Life" (Roll no: From 9 to 16)
- Option 3: "How AI is Changing the World" (Roll no: From 17 to 24)
- Option 4: "My Dream AI Robot" (Roll no: From 25 to 32)
- Option 5: "Benefits and Risks of Artificial Intelligence" (Roll no: From 33 to 40)

Task:

- Make a poster on any of the above following
- Use magazine cutouts, drawings, or digital tools like Canva.

Submission: Physical or digital poster (Canva app).



तत् त्वं पूषन अपावृणु

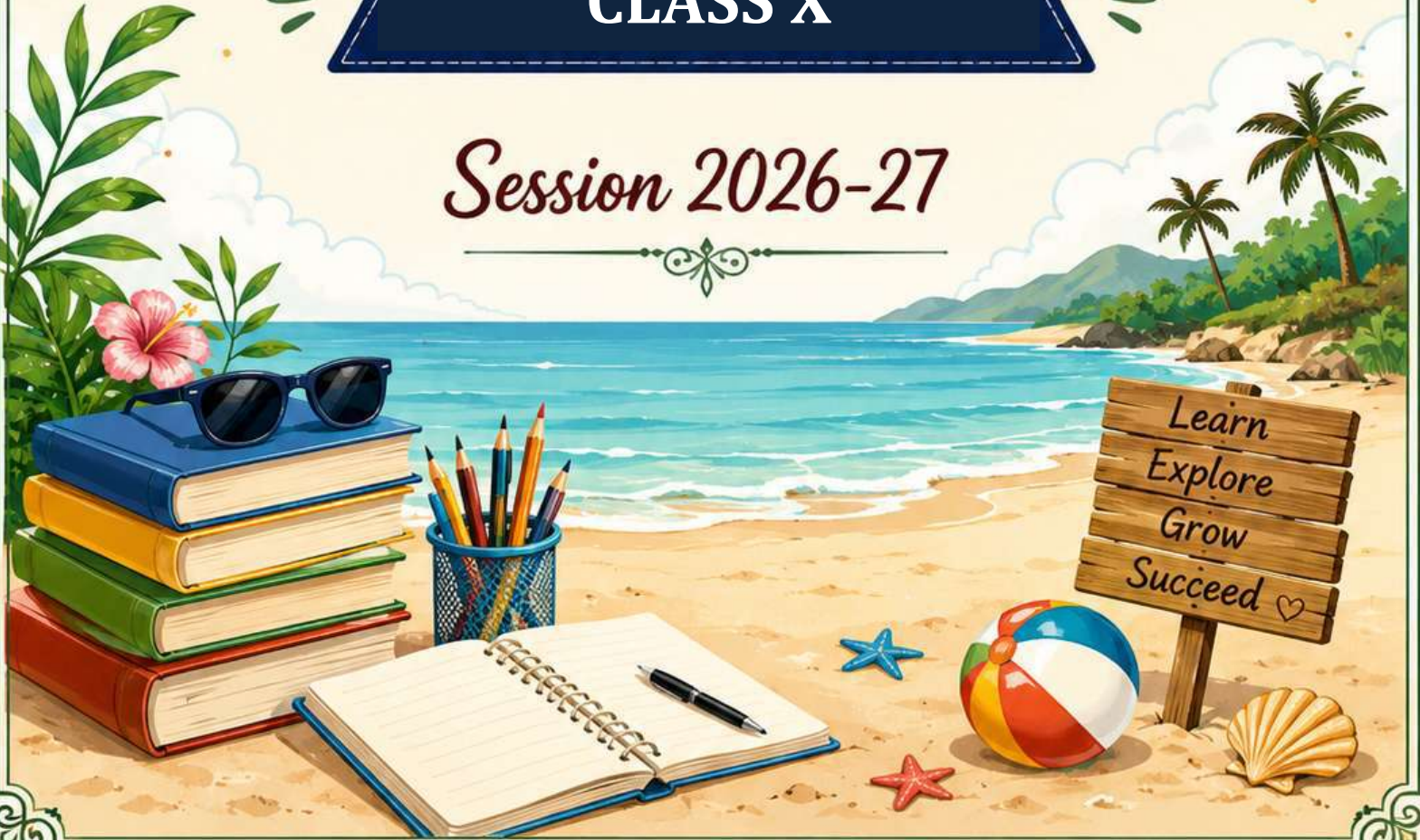


PM SHRI KENDRIYA VIDYALAYA NO. 2, BINNAGURI CANTT

Summer Vacation Holiday Homework

CLASS X

Session 2026-27



PM SHRI KENDRIYA VIDYALAYA NO.2 BINNAGURI CANTT.

CLASS 10 SUMMER VACATION HOLIDAY HOMEWORK



HOMEWORK ASSIGNMENTS

1)



1) SUMMARIES

Write and learn the summaries of first five pieces of prose and poetries from the books 'First Flight' and 'Footprints Without Feet'.

2)



2) ANALYTICAL PARAGRAPHS

Write 5 analytical paragraph from KVS Study material.

3)



3) GRAMMAR PRACTICE

Solve Grammar portion only from 5 sample papers of Language and Literature.

4)



4) LONG ANSWER QUESTIONS

Write 10 long answer questions from KVS Study Material of first 5 lessons from both books (6 questions from First Flight 4 questions from Moments).



IMPORTANT INSTRUCTIONS



- This work has to be completed only in Fair notebook of English.



- Portfolio has to be prepared separately in file papers with proper format and cover page.



ENJOY YOUR HOLIDAYS!

कक्षा 10 (पुस्तक - क्षितिज + कृतिका)

(क) गतिविधि आधारित कार्य (60%)

 लेखन

1. "तकनीक का प्रभाव" पर 150 शब्द लिखिए।
2. अपने मित्र को पत्र लिखिए (120 शब्द)।

 वाचन/वक्तृत्व

1. "शिक्षा में तकनीक" विषय पर 2 मिनट बोलिए।



VS



याद रखें

कठिन मेहनत आज
बेहतर भविष्य की
पहचान है।



नाम : _____

कक्षा : _____

रोल नंबर : _____

दिनांक : _____

PM SHRI KV NO 2 BINNAGURI CANTT

SUBJECT : MATHEMATICS

SUMMER VACATION HOMEWORK

CLASS X — Board Examination Questions

Textbook : NCERT Mathematics (Class X)

Topics : Ch.1 Real Numbers | Ch.2 Polynomials | Ch.3 Pair of Linear Equations | Ch.4 Quadratic Equations

Total Questions : 40 Questions | Board Examination Pattern

Note : To be completed in a separate Holiday Homework Notebook.

SECTION A : Multiple Choice Questions (1 Mark Each)

Chapter 1 — Real Numbers (MCQ)

- Q1.** The HCF of 52 and 130 is: (a) 26 (b) 13 (c) 52 (d) 65 [1M]
Q2. Which of the following is irrational? (a) 0.14 (b) 0.14141414... (c) 0.1416...(non-recurring) (d) 0.1414 [1M]
Q3. The decimal expansion of $17/8$ is: (a) terminating (b) non-terminating repeating (c) non-terminating non-repeating (d) none of these [1M]
Q4. If $\text{LCM}(26, 91) = 182$, then $\text{HCF}(26, 91) = ?$ (a) 13 (b) 26 (c) 7 (d) 91 [1M]

Chapter 2 — Polynomials (MCQ)

- Q5.** If α and β are zeroes of $2x^2 - 5x + 3$, then $\alpha\beta = ?$ (a) $5/2$ (b) $3/2$ (c) $-3/2$ (d) $-5/2$ [1M]
Q6. The number of zeroes of the polynomial whose graph cuts the x-axis at 3 points is: (a) 1 (b) 2 (c) 3 (d) 4 [1M]

Chapter 3 — Pair of Linear Equations (MCQ)

- Q7.** The pair $3x + 2y = 5$ and $6x + 4y = 10$ represents: (a) intersecting lines (b) parallel lines (c) coincident lines (d) perpendicular lines [1M]
Q8. For what value of k does $kx + 3y = 1$ and $6x + ky = 2$ have no solution? (a) 3 (b) -3 (c) 6 (d) -6 [1M]

Chapter 4 — Quadratic Equations (MCQ)

- Q9.** The roots of $x^2 - 7x + 12 = 0$ are: (a) 3, 4 (b) $-3, -4$ (c) 3, -4 (d) $-3, 4$ [1M]
Q10. The discriminant of $3x^2 - 2x + 1/3 = 0$ is: (a) 0 (b) 4 (c) -4 (d) 8 [1M]

SECTION B : Very Short Answer Questions (2 Marks Each)

- Q11.** Find HCF and LCM of 8, 9 and 25 by prime factorisation. [2M]
Q12. Prove that $5 - 2\sqrt{3}$ is irrational, given that $\sqrt{3}$ is irrational. [2M]

- Q13.** Find the zeroes of $p(x) = 4x^2 - 4x - 3$ and verify the relationship between zeroes and coefficients. [2M]
- Q14.** Find a quadratic polynomial whose zeroes are $(2 + \sqrt{3})$ and $(2 - \sqrt{3})$. [2M]
- Q15.** Solve: $3x - 5y = 4$ and $9x = 2y + 7$ by the substitution method. [2M]
- Q16.** For what value of k will the system $2x + ky = 1$ and $3x - 5y = 7$ have a unique solution? [2M]
- Q17.** Is it possible to design a rectangular plot whose perimeter is 40 m and area is 400 m²? Form the quadratic equation. [2M]
- Q18.** Find the roots of $2x^2 - 5x + 3 = 0$ by factorisation. [2M]
- Q19.** Why is $6 \times 7 \times 8 \times 9 + 9$ a composite number? [2M]
- Q20.** Using Euclid's division lemma, show that the square of any positive integer is of the form $3m$ or $3m + 1$. [2M]

SECTION C : Short Answer Questions (3 Marks Each)

- Q21.** Prove using Euclid's algorithm that $\text{HCF}(n, n+1) = 1$ for any positive integer n . [3M]
- Q22.** Show that $3\sqrt{2}$ is irrational. [3M]
- Q23.** Divide $p(x) = x^3 - 3x^2 + 4x - 3$ by $g(x) = x - 2$ and verify the Division Algorithm. [3M]
- Q24.** If α and β are the zeroes of $x^2 - 6x + 4$, find the value of (i) $\alpha^2 + \beta^2$ (ii) $1/\alpha + 1/\beta$ (iii) $(\alpha - \beta)^2$ [3M]
- Q25.** Solve graphically: $x + y = 6$ and $x - y = 2$. Find the area of the triangle formed with the y -axis. [3M]
- Q26.** A fraction becomes $4/5$ when 1 is added to each of the numerator and denominator. It becomes $7/10$ when 1 is subtracted from each. Find the fraction. [3M]
- Q27.** Places A and B are 100 km apart on a highway. One car starts from A and another from B at the same time. If they travel in the same direction, they meet in 5 hours. If they travel towards each other, they meet in 1 hour. Find their speeds. [3M]
- Q28.** Find the roots of $1/(x+4) - 1/(x-7) = 11/30$, $x \neq -4, 7$. [3M]
- Q29.** A plane travels 3000 km at uniform speed. If the speed had been 100 km/h more it would have taken 1 hour less. Find the speed. [3M]
- Q30.** Find the nature of roots of: (i) $5x^2 - 4x + 1 = 0$ (ii) $x^2 - 2x + 1 = 0$. If real, find them. [3M]

SECTION D : Long Answer Questions (5 Marks Each)

- Q31.** Use Euclid's division algorithm to find the HCF of 4052 and 12576. Also express HCF as a linear combination. [5M]
- Q32.** Prove that $\sqrt{5}$ is irrational. Use it to prove that $2 - 3\sqrt{5}$ is irrational. [5M]
- Q33.** Draw the graph of $x - y + 1 = 0$ and $3x + 2y - 12 = 0$. Determine the coordinates of the vertices of the triangle formed by these lines and the x -axis and find its area. [5M]
- Q34.** Find all zeroes of $2x^4 - 9x^3 + 5x^2 + 3x - 1$ if two of its zeroes are $(2 + \sqrt{3})$ and $(2 - \sqrt{3})$. [5M]
- Q35.** The sum of ages of a father and his son is 45 years. Five years ago, the product of their ages was 124. Find their present ages using a quadratic equation. [5M]
- Q36.** A takes 6 days less than B to complete a piece of work. If both work together they complete it in 4 days. How many days will B alone take? [5M]

SECTION E : Case Study Based Questions (4 Marks Each)

- Q37.** [Case Study] The school canteen sells samosas at Rs 8 each and juice at Rs 15 each. On a day, total items sold were 150 and total revenue was Rs 1650. (i) Set up a pair of linear equations. [2M] (ii) Find the number of samosas and juice bottles sold. [2M] [4M]
- Q38.** [Case Study] A factory manufactures two types of screws — Type A and Type B. Type A requires 2 min and Type B requires 3 min on a machine. Machine runs 8 hours/day. A combined

order of 200 screws is received. (i) Frame the equations. [2M] (ii) Find the number of each type if machine runs exactly 8 hours. [2M] [4M]

Q39. [Case Study] Two friends Aman and Bimal start cycling towards each other from towns 120 km apart. Aman's speed is 10 km/h more than Bimal's. They meet after 4 hours. (i) Form and solve a pair of equations for their speeds. [3M] (ii) Who would reach the other's town first? [1M] [4M]

Q40. [Case Study] A ball is thrown vertically upward. Height h (m) after t seconds: $h = -5t^2 + 30t$. (i) When does the ball reach maximum height? Find the max height. [2M] (ii) After how many seconds does it hit the ground? [2M] [4M]

***** Best of Luck! *****

PM SHRI KENDRIYA VIDYALAYA NO. 2 BINNAGURI CANTT

SUMMER VACATION HOLIDAY HOMEWORK

SCIENCE

CLASS X

Session:- 2026-27

Subject Enrichment Activity

1.Prepare a model of the human heart or digestive system.

Case Study:

Blood Donation

2.Ravi donated blood at a blood donation camp. Doctors checked his haemoglobin level before donation.

- Why is haemoglobin important?
- Which blood cells contain haemoglobin?
- Why should blood groups match during transfusion?
- Mention one benefit of blood donation.

Diagram-Based Questions

3.Draw and label:

- Human digestive system
- Human heart
- Human respiratory system
- Open and Closed Stomata

Also mention one function of each labelled part.

Competency-Based Questions

4.A student observed bubbles when zinc granules were added to dilute hydrochloric acid.

- Identify the gas evolved.
- Write the balanced chemical equation.
- Mention one test to identify the gas.

5.Food items kept open for many days develop a bad smell and taste.

- Name the process responsible.
- Which type of reaction is involved?
- Suggest two methods to prevent it.

6.During a laboratory activity, iron nails were dipped in copper sulphate solution. After some time, the solution turned light green.

- Why did the colour change occur?

- b) Name the type of reaction.
- c) Write the balanced equation.

7.A student forgot to balance a chemical equation in an experiment.

- a) Why is balancing necessary?
- b) Which law is satisfied by balancing?

8.Silver jewellery turns black after some time.

- a) What causes this change?
- b) Name the process involved.
- c) Write one method to prevent it.

9.Observe the following situations and identify whether a chemical reaction occurs or not:

- Melting of ice
- Burning of paper
- Digestion of food
- Dissolving sugar in water

Give a reason for each answer.

10.A magnesium ribbon burns with a dazzling white flame.

- a) Write the balanced chemical equation.
- b) What type of reaction is this?
- c) Why should magnesium ribbon be cleaned before burning?

Prepared by
SHAIL KUMARI
TGT SCIENCE

HOLIDAY HOMEWORK

SUMMER VACATION (08.05.2026 to 16.06.2026)

CLASS – X

SOCIAL SCIENCE

- 1. Map work (Label and locate states and union territories with their capitals on India Map and paste in your notebook)**
- 2. Do Map practice of History and Geography.**
- 3. “Money in your pocket cannot buy all the goods and services that you may need to live well.” Justify the statement with example.**
- 4. What are the different forms of power sharing in modern democracies? Give an example of each of these.**
- 5. Write the Ethnic composition of Belgium and Sri Lanka.**
- 6. What criteria does UNDP compare to measure the human development index? Explain.**
- 7. Briefly trace the process of German and Italy unification.**
- 8. What steps did the French revolutionaries take to create a sense of collective identity among the French people? Write any five.**
- 9. Learn and revise all the completed chapters. (Economics, History and Civics)**
- 10. Briefly trace the geographical and ethnic variations of the Balkans region. Why did this region become politically very explosive?**
- 11. What was the main aim of the Treaty of Vienna 1815? What were the main provisions of the Treaty of Vienna held in 1815?**

➤ Project-

Every student has to compulsorily undertake any one project on the following topics:

1. Consumer Awareness

The students must write about following key matter:

- a. Enactment of COPRA 1986 and its benefits**

b. Various Consumer Rights

c. Role of WTO in protection of Consumers

OR

2. Social Issues The students must write about following key matter:

a. Social issues in Indian Society

b. Reforms initiated to combat the social issues

c. Role of Popular leaders and movements.

OR

3. Sustainable Development The students must write about following key matter:

a. Need of development.

b. Importance of development

c. Policies initiated to adopt measures for Sustainable Growth.

NOTE: Marks will be given on the basis of following parameters

(a) Content accuracy, originality and analysis

(b) Presentation and creativity

(c) Viva-voce

**PM SHRI KENDRIYA VIDYALAYA NO.2,
BINNAGURI CANTT**

Summer Vacation Holiday Homework (2026-'27)

Class: X

Sub.: Artificial Intelligence (417)

A. Create a practical file using Python programming.

Instructions:

- Use a computer and notebook to complete the assignment.
- Python code must be tested using Python 3.x (preferably IDLE or Jupyter Notebook).
- Submit your work neatly organized with proper headings and comments.

	PYTHON BASIC PROGRAMMING
1.	Write a program to create Simple Calculator (ask the user for two numbers and perform addition, subtraction, multiplication, and division).
2.	Write a program to check if it is even or odd by taken a number from the user.
3.	Write a program to ask the user to enter their name and age, and print a greeting.
4.	Write a program to create a chatbot that responds to some fixed inputs.
5.	Write a program to check if a Number is Positive, Negative or Zero.
6.	Write a program to find the Largest of Three Numbers.

B. Make a digital presentation on the following topic:

- Applications of AI (Roll no: From 1 to 5)
- How Self-Driving Cars Use AI (Roll no: From 6 to 10)
- Ethics in AI (Roll no: From 11 to 15)
- AI vs Human Intelligence (Roll no: From 16 to 20)
- Top 5 AI Tools or Apps You Use (Roll no: From 21 to 25)
- The Future of Artificial Intelligence (Roll no: From 26 to 30)
- My Dream AI Invention (Roll no: From 31 to 35)

Instructions:

Choose **any one topic** from the list above

- Prepare a PowerPoint presentation with **5–7 slides**.
- Use **images, icons, short bullet points**, and **simple explanations**.
- Be creative, but keep it clear and focused.
- Submit via pen drive, Google Drive, or printed slides (if needed).



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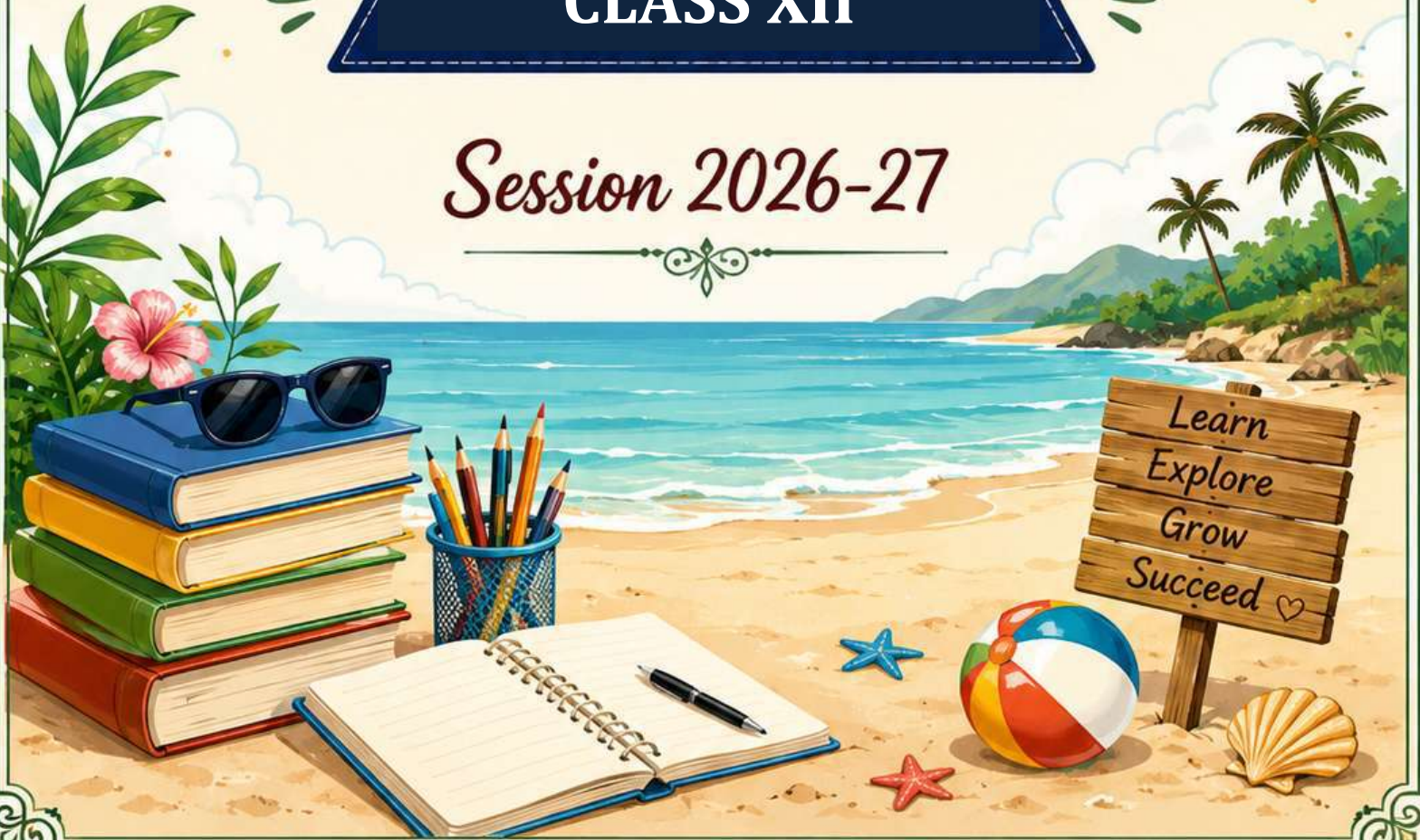


PM SHRI KENDRIYA VIDYALAYA NO. 2, BINNAGURI CANTT

Summer Vacation Holiday Homework

CLASS XII

Session 2026-27



PM SHRI KENDRIYA VIDYALAYA-2 BINNAGURI CANTT.(WB)
SUMMER VACATION HOMEWORK (2026-27)
CLASS- XII
SUB- ENGLISH CORE

1. Reading:

- Read English News paper daily and write 5 words everyday with their meanings and usage in sentence in your Notebook.
- Read and choose a letter to the editor from 'The Times of India' and paste the cutting of the same on the page of your Exercise Copy and compose a letter to the editor of a newspaper highlighting the effects created by overuse of electronic gadgets by the youth in the 21st century.
- Read the book *Ignited Minds* by A P J Abdul Kalam and write a review of the book.
- Read the following texts and make important notes from these texts-

(a) *The Lost Spring, Keeping Quiet* from Flamingo (b) *The Third Level, The Enemy* from Vistas

3. Writing: (in 120-130 words)

- (a) Watch the movie *Dead Poets Society* (1989) and write a review of it. (150 words)
- (b) Linguistic Chauvinism. (*The Last Lesson*)
- (c) A daughter's thoughts about her aging parents. (*My Mother at Sixty Six*)
- (d) The tendency to escape from the anxiety of modern life. (*The Third Level*)
- (e) Compose an article for your school magazine highlighting how indiscriminate hunting of birds and animals destroy ecological balance.

2. Practice CBSE Sample QP 2024-25, UNSEEN PASSAGE

https://cbseacademic.nic.in/web_material/SQP/ClassXII_2025_26/EnglishCore-SQP.pdf

3. Writing Section - Practice Notice Writing, Invitation and Replies, Letter to Editor.

SECTION B
CREATIVE WRITING SKILLS (18 marks)

Attempt **any one** of the two, (A) or (B), in about 50 words

1x4=4

- A. Your school is planning to conduct an inter-class seminar on the topic–The Importance of Mental Health–to create awareness in adolescents. As the head of the organising committee, write a notice to inform all students about the seminar and invite registrations from classes XI-XII. Include other necessary details. Put your notice in a box.

OR

- B. Your school is organising an inter-House webinar on enhancing coding skills, As the President of the Computer Club, write a notice to inform all House members from IX-XII about the webinar and specify the number of registrations invited per House. Include other necessary details. Put your notice in a box.

Attempt **any one** of the two, (A) or (B), in about 50 words.

1x4=4

- A. Draft an invitation in not more than 50 words from Vani Gopalan, Chief Project Officer of an NGO, for the launch of the 'Each One Teach One' programme, addressed to school Principals and Coordinators. Mention a compelling highlight of the programme along with other necessary details

OR

- B. An invitation had been issued by Mr. Cherian, the HR Head of your company inviting you for the company picnic. As Joseph Vijayan, Asst. Manager, Operations, draft a reply in not more than 50 words, consenting to attend.

Attempt **any one** of the two, (A) or (B), in 120 150 words

1x5=5

- A. Financial literacy is increasingly recognised as a crucial 21st-century skill for young individuals. Write a letter to the editor of a local daily discussing the benefits of providing financial literacy education to children. Also, suggest effective ways to raise awareness about the importance of this education among parents and guardians. You may use some of the given cues along with your own ideas to draft the letter. You are a counsellor, Chitra Mahapatra from Puri, Odisha.

- What are the long-term benefits of learning financial independence from a young age?
- Why is understanding the power of finances beneficial for young learners?
- Why skills learned during childhood tend to have a lasting impact.

OR

- B.** You are Maya Syiem from Shillong. You read the given advertisement and wish to apply for the post advertised. Write this job application along with your bio-data.

Join our Creative Team!
A renowned publishing house in Shillong
–A NEW WORLD–
is seeking a talented illustrator for children's books.
Creative individuals with a passion for storytelling through art, welcome.
Experience, not mandatory.
Team players with degree/ diploma in Fine Arts/ Graphic Design may apply with 5 samples
from portfolio illustrating a variety of work.
Write to the Project Lead, 23-C Rosewood Lane, Shillong-793005

Attempt **any one** of the two, (A) or (B), in 120 150 words

1x5=5

- A.** In an era of rapid globalisation and technological advancement, the preservation of cultural heritage remains a vital challenge, particularly for the youth. India continues to navigate the complexities of maintaining tradition alongside modernity. Write an article exploring the role of cultural heritage in shaping the identities of today's Indian youth. Provide examples to illustrate your points wherever necessary. You may use some of the given cues along with your own ideas. You are Arti Nirula of Class XII-A.

- How have global interactions and technologies influenced or changed these traditional practices among today's youth?
- What are the benefits of preserving cultural heritage for young people? How does it contribute to their sense of identity and community?
- Suggest ways in which young people and institutions can work together to ensure the preservation of cultural heritage.

OR

- B.** You are Hina Aziz, student of Class XII-D and a member of the school magazine editorial board. Write a comprehensive report detailing the activities undertaken by students as part of the celebrations on Yoga Day. Include descriptions of the events, participation details, and the overall impact of these activities on the school community. You may organise your report by following - Who - What – When – Where – Why – How

PM SHRI KENDRIYA VIDYALAYA No. 2, BINNAGURI CANTT.

Summer Holiday Homework (2026-27)

SUBJECT: PHYSICS

CLASS: XIIA

- Prepare and maintain (on an A4 sheet):
 - formula sheet
 - SI units
 - Important graphs and diagrams
- Complete all NCERT examples and exercises from Chapters 1 & 2.
- Solve and write MT-1 question paper in your school notebook.
- Complete activity file with 6 activities neatly.
- Maintain a separate Physics Holiday homework copy and practice at least one derivation and 2–3 numerical daily from the PYQs of each chapter.

Note: The copy will be submitted after the summer vacation.

Class 12 Chemistry Summer Vacation Holiday Homework

Chapter 1: Solutions

Do the following:

- Learn and write:
 - Types of solutions
 - Concentration terms
 - Henry's Law
 - Raoult's Law
 - Colligative properties

Solve:

- All NCERT in-text questions
- Exercise questions
- 10 additional numericals

Chapter 2: Electrochemistry

Learn and write:

- Electrochemical cell
- Galvanic cell
- Nernst Equation
- Conductance and conductivity
- Batteries and fuel cells
- Corrosion

Solve:

- All NCERT in-text questions
- Exercise questions
- 10 numericals from NCERT

3. Investigatory Project

4. Make formula chart and write all the name reaction (organic).

5. Solve M T 1 question paper and previous year board question paper in your classwork copy.

Make a separate copy for solving que-1,2 and 4.

PM SHRI KENDRIYA VIDYALAYA NO. 2, BINNAGURI CANTT
HOLIDAY H.W. FOR CLASS XII (A + B)

SUBJECT:- MATHS

(2026-27)

1. PYQ OF CHAPTER 1, 2, 3 & 4 OF SET- 1 FROM ALSSCE (CBSE)- OF LAST 05 YEARS (2021,22,23,24,25.)
2. ACTIVITIES - (TO BE DONE IN A SEPARATE ACTIVITY NOTE-BOOK)
 1. TO VERIFY THAT THE RELATION R IN THE SET L OF ALL LINES IN A PLANE, DEFINED BY $R = \{(L, M) : L \perp M\}$ IS SYMMETRIC BUT NEITHER REFLEXIVE NOR TRANSITIVE.
 2. TO VERIFY THAT THE RELATION R IN THE SET L OF ALL LINES IN A PLANE, DEFINED BY $R = \{(L, M) : L \parallel M\}$ IS AN EQUIVALENCE RELATION.
 3. TO DRAW THE GRAPH OF $\sin^{-1} x$ USING THE GRAPH OF $\sin x$ AND DEMONSTRATE THE CONCEPT OF MIRROR REFLECTION (ABOUT THE LINE $y = x$).
 4. TO EXPLORE THE PRINCIPAL VALUE OF THE FUNCTION $\sin^{-1} x$ USING A UNIT CIRCLE.
 5. TO SKETCH THE GRAPHS OF a^x AND $\log_a x$, $a > 0$, $a \neq 1$ AND TO EXAMINE THAT THEY ARE MIRROR IMAGES OF EACH OTHER.

PM SHRI KENDRIYA VIDYALAYA NO.2 BINNAGURI CANTT
SUMMER VACATION HOMEWORK (2026-27)
CLASS XII BIOLOGY

1. Complete the investigatory project on the topic provided to you.
2. Write all the practical experiments as given in the curriculum except the observation and observation table in section A experiments.
3. Write answers to selected questions given in the back exercise of chapter 2 and 3.
4. Solve PYBQs of Unit-1. Soft copy shared.
5. **Complete the worksheet provided and paste in your notebook**

INVESTIGATORY PROJECT

s.no.	Name of the Student	Investigatory project
1	AISHIKA SAHA	Infertility Cause and treatment
2	ANSHIKA CHHETRI	Pollination
3	ANJALI THAKUR	Transgenic Animals
4	ASHU KUMARI	Drugs and Alcohol abuse
5	ASUTOSH KUMAR RAJAK	Cancer
6	MAITHILI MISHRA	In vitro fertilization (IVF)
7	KARMA DUKPA	microbes in sewage treatment
8	PRITY SINGH	Biotechnological application in Agriculture
9	NOOR JAHAN KHATUN	Recombinant DNA technology
10	MD SAHEAL ISLAM	Human genome project
11	ARUSHI KUMARI	Medical termination of pregnancy in India and world
12	SNEHA KARJEE	Vaccination and Immunisation
13	SAMPURNA PAUL	Steps taken by government of India for biodiversity conservation
14	RUSMA RAI	Chromosomal disorders
15	PREETY UTTAM JONWAL	Fertilization and embryonic development
16	ROSHNI KUMARI SAH	Infertility Cause and treatment
17	DIPAYASHU SINGH	Population Interactions
18	ASHWINI MISAL	Origin and evolution of man
19	ISHITA CHHETRI	MENDALIAN DISORDERS

पीएम श्री केंद्रीय विद्यालय क्र. -2 बिन्नागुड़ी छावनी

ग्रीष्मकालीन अवकाश कार्य

दिनांक -07/05/2026

कक्षा - 12 अ, 12 ब

विषय -हिंदी

शिक्षक - जितेन्द्र प्रताप सिंह

आरोह भाग - 2

1 - हरिवंश राय बच्चन जी की आत्मकथा के बारे में पता कीजिए और संक्षेप में उनकी अन्य रचनाओं का विवरण दीजिए ।

2 - 'पतंग' कविता पढ़िए व सुलेख लिखिए ।

3 - 'बाजार दर्शन' पाठ पढ़िए । जिनमें कई छोटी-छोटी कहानियों के प्रसंग हैं । आपको उनमें से कौन-सा प्रसंग अच्छा लगा और क्यों ?

वितान भाग - 2

प्रश्न 4- 'सिल्वर वेडिंग' कहानी पढ़िए । यशोधर बाबू की कहानी को दिशा देने में किशन दा की महत्वपूर्ण भूमिका रही है । इस प्रकार आपके जीवन को दिशा देने में किसका महत्वपूर्ण योगदान रहा है ?

प्रश्न - 6 'जूझ' कहानी पढ़िए ।

(क) कहानी में आपको सबसे अच्छा क्या लगा ? प्रेरित करने वाली कोई दो बात बताइए ।

अभिव्यक्ति और माध्यम पाठ्यपुस्तक से -

प्रश्न -7 'परीक्षा में होने वाले तनाव व कारण' अथवा 'मेरे जीवन का लक्ष्य' विषय पर रचनात्मक लेखन कीजिए ।

प्रश्न -8 'अभिव्यक्ति और माध्यम' पाठ्य पुस्तक के पाठ संख्या 3, 4 से दो-दो प्रश्न बनाकर 30 - 40 शब्दों में उत्तर लिखिए ।

विशेष - अवकाश के दिनों की किसी विशेष यात्रा अथवा विशेष अनुभव के बारे में लिखिए । साथ ही साथ यह भी बताइए इस अवकाश के दौरान आपने कौन सा विशेष कार्य किया ।

अथवा

यदि कोई नयी किताब अथवा नयी कहानी अथवा उपन्यास पढ़ा तो संक्षेप में उसके बारे में बताइए ।

अथवा

स्व-रचित कविता/लेख/चित्र सृजित कर विद्यालय पत्रिका में योगदान कीजिए ।

शुभकामनाएं ।

PM SHRI KENDRIYA VIDYALAYA NO. 2, BINNAGURI CANTT

Class XII Sub: Computer Science

Summer Vacation Holiday Homework

1. Students are required to form four groups and develop a web application project based on any one of the following topics:

- A.** Hotel Management System
- B.** Library Management System
- C.** Timetable Management System
- D.** Attendance Management System

Each group should select one topic and work collaboratively on the design, development, and presentation of the project and submit the thesis of the project.

Group 1: Maithili, Aishika, Ashu, Ritam, Dipyanshu

Group 2: Arman, Shristi, Ashutosh, Saheal, Laksh

Group 3: Sayantan, Ankit, Anjali, Sneha, Manish

Group 4: Awantika, Sagun, Ruchi, Noor, Ranjana

2. Prepare a separate practical file and write the following Python programs along with their respective outputs in a neat and systematic manner.
 - (i) Read a text file line by line and display each word separated by a #.
 - (ii) Read a text file and display the number of vowels/consonants/uppercase/lowercase characters in the file.
 - (iii) Remove all the lines that contain the character 'a' in a file and write it to another file.
 - (iv) Create a binary file with name and roll number. Search for a given roll number and display the name, if not found display appropriate message.
 - (v) Create a binary file with roll number, name and marks. Input a roll number and update the marks.
 - (vi) Write a random number generator that generates random numbers between 1 and 6 (simulates a dice).
 - (vii) Write a Python program to implement a stack using list.
 - (viii) Create a CSV file by entering user-id and password, read and search the password for given user-id.

Summer Vacation Holiday Homework

Class :- 12th Commerce

Subject :- Business Studies (054)

Session :- 2026-27

BY :- MD ARIF HUSSAIN (PGT COMMERCE)

S.No	Topics
1.	<u>Project work</u> Students are supposed to select one unit out of four and are required to make only ONE project from the selected unit. I. Project One: Elements of Business Environment 1. Changes witnessed over the last few years on mode of packaging and its economic impact. a) The changes in transportation of fruits and vegetables such as cardboard crates being used in place of wooden crates, etc. Reasons for above changes. b) Milk being supplied in glass bottles, later in plastic bags and now in tetra-pack and through vending machines. c) Plastic furniture [doors and stools] gaining preference over wooden furniture. d) The origin of cardboard and the various stages of changes and growth. e) Brown paper bags packing to recycled paper bags to plastic bags and cloth bags. f) Re use of packaging [bottles, jars and tins] to attract customers for their products. g) The concept of pyramid packaging for milk. h) Cost being borne by the consumer/manufacturer. i) Packaging used as means of advertisements. 2. The reasons behind changes in the following: Coca – Cola and Fanta in the seventies to Thums up and Campa Cola in the eighties to Pepsi and Coke in nineties. The times when India sold Coca Cola and Fanta which were being manufactured in India by the foreign companies. The students may be asked to enquire about a) Reasons of stopping the manufacturing of the above mentioned drinks in India THEN. b) The introduction of Thums up and Campa cola range. c) Re entry of Coke and introduction of Pepsi in the Indian market. d) Factors responsible for the change. e) Other linkages with the above. f) Leading brands and the company having the highest market share. g) Different local brands venturing in the Indian market. h) The rating of the above brands in the market. i) The survival and reasons of failure in competition with the international brands. j) Other observations made by the students II. Project Two: Principles of Management The students are required to visit any one of the following: 1. A departmental store. 2. An Industrial unit. 3. A fast food outlet. 4. Any other organisation approved by the teacher. They are required to observe the application of the general Principles of management advocated by Fayol.

Fayol's principles

1. Division of work.
2. Unity of command.
3. Unity of direction.
4. Scalar chain
5. Espirit de corps
6. Fair remuneration to all.
7. Order.
8. Equity.
9. Discipline
10. Subordination of individual interest to general interest.
11. Initiative.
12. Centralisation and decentralisation.
13. Stability of tenure.
14. Authority and Responsibility

OR

They may enquire into the application of scientific management techniques by F.W. Taylor in the unit visited.

Scientific techniques of management.

1. Functional foremanship.
2. Standardisation and simplification of work.
3. Method study.
4. Motion Study.
5. Time Study.
6. Fatigue Study
7. Differential piece rate plan.

III. Project Three: Stock Exchange

The purpose of this project is to teach school students the values of investing and utilising the stock market. This project also teaches important lessons about the economy, mathematics and financial responsibility.

The students are expected to:

- a) Develop a brief report on History of Stock Exchanges in India. (your country)
- b) Prepare a list of at least 25 companies listed on a Stock Exchange.
- c) To make an imaginary portfolio totalling a sum of Rs. 50,000 equally in any of the 5 companies of their choice listed above over a period of twenty working days.

The project work should cover the following aspects;

1. Graphical presentation of the share prices of different companies on different dates.
2. Change in market value of shares due to change of seasons, festivals, natural and human disasters.
3. Change in market value of shares due to change in political environment/ policies of various countries/crisis in developed countries or any other reasons
4. Identify the top ten companies out of the 25 selected on the basis of their market value of shares.

It does not matter if they have made profits or losses.

IV. Project Four: Marketing

- | | |
|-------------------------|------------------------|
| 1. Adhesives | 20. Cutlery |
| 2. Air conditioners | 21. Cycle |
| 3. Baby diapers | 22. DTH |
| 4. Bathing Soap | 23. Eraser |
| 5. Bathroom cleaner | 24. e-wash |
| 6. Bike | 25. Fairness cream |
| 7. Blanket | 26. Fans |
| 8. Body Spray | 27. Fruit candy |
| 9. Bread | 28. Furniture |
| 10. Breakfast cereal | 29. Hair Dye |
| 11. Butter | 30. Hair Oil |
| 12. Camera | 31. Infant dress |
| 13. Car | 32. Inverter |
| 14. Cheese spreads | 33. Jams |
| 15. Chocolate | 34. Jeans |
| 16. Coffee | 35. Jewellery |
| 17. Cosmetology product | 36. Kurti |
| 18. Crayons | 37. Ladies bag |
| 19. Crockery | 38. Ladies footwear |
| 39. Learning Toys | 59. Sarees |
| 40. Lipstick | 60. Sauces/ Ketchup |
| 41. Microwave oven | 61. Shampoo |
| 42. Mixers | 62. Shaving cream |
| 43. Mobile | 63. Shoe polish |
| 44. Moisturizer | 64. Shoes |
| 45. Music player | 65. Squashes |
| 46. Nail polish | 66. Suitcase/ airbag |
| 47. Newspaper | 67. Sunglasses |
| 48. Noodles | 68. Tea |
| 49. Pen | 69. Tiffin Wallah |
| 50. Pen drive | 70. Toothpaste |
| 51. Pencil | 71. Wallet |
| 52. Pickles | 72. Washing detergent |
| 53. Razor | 73. Washing machine |
| 54. Ready Soups | 74. Washing powder |
| 55. Refrigerator | 75. Water bottle |
| 56. RO system | 76. Water storage tank |
| 57. Roasted snacks | 77. Wipes |
| 58. Salt | |

Identify one product/service from the above which the students may like to manufacture/provide [pre-assumption].

Now the students are required to make a project on the identified product/service keeping in mind the following:

1. Why have they selected this product/service?
2. Find out '5' competitive brands that exist in the market.
3. What permission and licences would be required to make the product?
4. What are your competitors Unique Selling Proposition.[U.S.P.]?
5. Does your product have any range give details?
6. What is the name of your product?
7. Enlist its features.
8. Draw the 'Label' of your product.
9. Draw a logo for your product.
10. Draft a tag line.
11. What is the selling price of your competitor's product?
 - (i) Selling price to consumer
 - (ii) Selling price to retailer
 - (iii) Selling price to wholesaler

What is the profit margin in percentage to the

- Manufacturer.
- Wholesaler.
- Retailer.

13. Which channel of distribution are you going to use? Give reasons for selection?
14. Decisions related to warehousing, state reasons.

15. What is going to be your selling price?

- (i) To consumer
- (ii) To retailer
- (iii) To wholesaler

16. List 5 ways of promoting your product.

17. Any schemes for

- (i) The wholesaler
- (ii) The retailer
- (iii) The consumer

18. What is going to be your 'U.S.P'?

19. What means of transport you will use and why?

20. Draft a social message for your label.

21. What cost effective techniques will you follow for your product.

22. What cost effective techniques will you follow for your promotion plan.

At this stage the students will realise the importance of the concept of marketing mix and the necessary decision regarding the four P's of marketing.

- Product
- Place
- Price
- Promotion

On the basis of the work done by the students the project report should include the following:

1. Type of product /service identified and the (consumer/industries) process involve there in.
2. Brand name and the product.
3. Range of the product.
4. Identification mark or logo.
5. Tagline.
6. Labeling and packaging.
7. Price of the product and basis of price fixation.
8. Selected channels of distribution and reasons thereof.
9. Decisions related to transportation and warehousing. State reasons.
10. Promotional techniques used and starting reasons for deciding the particular technique.
11. Grading and standardization.

Presentation and Submission of Project Report

Following essentials are required to be fulfilled for its preparation and submission.

1. The total length of the project will be of 25 to 30 pages.
2. The project should be handwritten.
3. The project should be presented in a neat folder.
4. The project report should be developed in the following sequence-
 - Cover page should include the title of the Project, student information, school and year.
 - List of contents.
 - Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped).
 - Introduction.
 - Topic with suitable heading.
 - Planning and activities done during the project, if any.

	• Observations and findings of the visit. • Conclusions (summarized suggestions or findings, future scope of study). • Photographs (if any). • Appendix • Teacher's observation. • Signatures of the teachers.
2.	Students are advised to solve the follow question in their copies as it will be helpful for their upcoming board exam :- Section A :- Each question carries 1 marks. 1. Management is always denoted by 'We' and not by 'I' because (1) (a) It is a process. (b) It is continuous. (c) It is a group activity. (d) It is intangible. 2. Akash works as a production manager in 'Elite Enterprises' manufacturing LED lights. Due to festive season, there is lot of demand for their lights. Akash was given the task of producing 100 units of LED lights @ Rs 200 per unit within 5 days for an urgent order. Akash was able to achieve the target of 100 units of LED lights within 5 days @ Rs 220 per unit. Identify from the following whether Akash is: (1) (a) Efficient only (b) Both efficient and effective (c) Effective only (d) Neither efficient nor effective 3. Which of the following is not a function of middle level management? (1) (a) Analysing the business environment and its implications for survival of the firm. (b) Interpreting the policies framed by top management. (c) Ensuring that their department has necessary personnel (d) Motivating people in their department to achieve desired objectives. 4. A manager applies theoretical knowledge creatively to solve unique problems in the organization. Which aspect of management is highlighted in this scenario? (1) 5. Which principle of management emphasizes that "Employee turnover should be minimized to maintain organizational efficiency"? (1) a) Stability of personnel b) Remuneration of employees c) Equity d) Esprit de Corps 6. is the process by which a manager synchronises the activities of different departments. (1) (a) Management (b) Planning (c) Co-ordination (d) Directing 7. Assertion(A): If Mohan , an employee of production department is asked to go slow in production to maintain quality standard by the production manager and sales manager instructs the employee to fasten the production to meet the pending orders. In the situation , employee will get confused as to whose instruction must be followed by him. Reason(R) : Unity of command means one employee received order from one superior and should be accountable to one superior only. (1) (A) Both Assertion (A) and Reason(R) are true and Reason (R) is correct explanation of Assertion (A) (B) Both Assertion (A) and Reason(R) are true and Reason (R) is not correct explanation of Assertion(A) (C) Assertion(A) is true but Reason(R) is false (D) Assertion(A) is false but Reason(R) is true 8. What do you mean by efficiency ? (1)

OR

How is management a profession ?

Section :- B (Each question carries 3 marks)

9. What are the three objectives of Management ? Explain them. (3)

OR

Explain any three importance of Management.

10. Rohan, Sohan and Mohan are three friends, they work in same company. One day they were having a conversation. When Rohan said, "It is was difficult to coordinate between me the production manager and Prayash the sales manager but after years of working together we are good friends now".

Sohan said, "I am facing problems looking after 20 workers that work under me at a time and keeping track of employees under my supervision"

Mohan said "I have to decide the long-term plans of organisation and I am responsible for the overall welfare of the organisation." (3)

(a) Identify different levels of management these friends belong to

(b) Explain any two functions of each level.

Section C :- (Each question carries 4 marks)

11. "Your assets walk out of organisation and management make sure they come back everyday morning."

a. State the function of management highlighted in above line.

b. What is meant by management as a science ?

c. What do you understand by the term management ? (4)

12. Explain the four scientific principles formulated by F.W. Taylor. (4)

Section :- D (Each question carries 6 marks)

13. Regardless of Size, nature and type of organisation, all the manager have to perform some basic functions of management. What are they, Explain them. (6)

14. "Coordination:- The Essence of Management." What do you understand by this line. Explain. Also explain any three importance of coordination. Write a few lines about F.W Taylor

(2+3+1 = 6)

OR

Karan Nath took over 'D' North Motor Company' from his ailing father three months ago. In the past, the company was not performing well. Karan was determined to improve the company's performance. He observed that the methods of production as well as selection of employees in the company were not scientific. He believed that there was only one best method to maximize efficiency. He also felt that once the method is developed, the workers of the company should be trained to learn that 'best method'. He asked the Production Manager to develop the best method and carry out the necessary training. The Production Manager developed this method using several parameters right from deciding the sequence of operations, place for men, machines and raw materials till the delivery of the product to the customers. This method was implemented throughout the organization. It helped in increasing the output, improving the quality and reducing the cost and wastage.

Identify and explain the principles and the technique of scientific management followed by the Production Manager in the above case. (6)

15. Marut Enterprises' is a large company manufacturing washing machines. From the last few months, employees have been reporting dissatisfaction with the overall work environment which has led to a decline in productivity. The management realized that there is no coordination between various departments. On one hand, the Production Manager is giving instructions to the workers to speed up the work to achieve the targets whereas on the other hand, the Sales Manager is also giving instructions to the workers of the production department to slow down the production as sales are not picking up. It was also observed by the company's management that there is a lack of proper communication among different levels of superiors and subordinates. Even in case of emergencies, a worker is not in a position to contact the Chief Executive Officer directly, which is affecting the productivity and the morale of the workforce. The management felt a need to foster a positive environment which may promote team spirit of unity and harmony among the employees.

Identify and explain the three principles of management given by Henri Fayol which can help in addressing the challenges faced by the company.

Also write a few lines about Henri Fayol.

(4+2)

HAPPY HOLIDAY

**Remember to stay safe, take care of yourself, and come back refreshed and ready for new
adventure in learning.**

PM SHRI KENDRIYA VIDYALAYA NO.2, BINNAGURI CANTT.

Summer Vacation Holiday Homework

Class :- 12th Commerce

Subject :- Accountancy (055) Session :-2026-27

BY :- MD ARIF HUSSAIN (PGT COMMERCE)

1

Project Work

One specific project based on financial statement analysis of a company covering any two aspects from the following:

1. Comparative and common size financial statements.

2. Accounting Ratios.

3. Segment Reports.

4. Cash Flow Statements.

Tips :-

The student(s) will be allowed to select any business of their choice or develop the transaction of imaginary business. The project is to run through the chapters and make the project an interesting process. The amounts should emerge as more realistic and closer to reality.

A list of options to the students to select a business form. You can add to the given list:

1. A beauty parlour

2. Men's saloon

3. A tailoring shop

4. A canteen

5. A cake shop

6. A confectionery shop

7. A chocolate shop

8. A dry cleaner

9. A stationery shop

10. Men's wear

11. Ladies wear

12. Kiddies wear

13. A Saree shop

14. Artificial jewellery shop

15. A small restaurant

16. A sweet shop

17. A grocery shop

18. A shoe shop

19. A coffee shop

20. A music shop

21. A juice shop

22. A school canteen

23. An ice cream parlour

24. A sandwich shop

25. A flower shop

After selection, advise the student(s) to visit a shop in the locality (this will help them to settle on a realistic amount different item. The student(s) would be able to see the things as they need to invest in furniture, decor, lights, machines, computers etc.

They may use their own creativity to make the project work even better.

2

Students are advised to solve the follow question in their copies as it will be helpful for their upcoming board exam :-

Q.No	Question	Marks
	Section :- A (Each Question carries 1 mark)	
1.	Definition of Partnership is given in the : A) Section 4 of Indian Partnership Act,1932. B) Section 6 of Indian Partnership Act,1932. C) Section 8 of Indian Partnership Act,1942. D) Section 4 of Companies Act, 2013.	1
2.	Does partnership firm has a separate legal entity ? Give reason in support of your answer.	1
3.	Partnership Deed is also known as _____ .	1
4.	Given below are two statement, one labelled as Assertion (A) and the other labelled as Reason (R). Assertion (A) : Transfer to reserves is shown in Profit & Loss Appropriation a/c	1

	Reason (R) : Reserves are charge against the profits. In the context of the above two statements, which of the following is correct ? Codes : (A) (A) is correct, but (R) is wrong. (B) Both (A) and (B) is correct. (C) (A) is wrong but (B) is correct. (D) Both (A) and (R) are wrong.	
5.	Given below are two statement, one labelled as Assertion (A) and the other labelled as Reason (R). Assertion (A) : Each partner is a principal as well as an agent for all other partners. Reason (R) : As per the definition of partnership Act, partnership business may be carried on by all partner or any one of them acting for all. In the context of the above two statements, which of the following is correct ? Codes : (A) (A) is correct, but (R) is wrong. (B) Both (A) and (B) is correct. (C) (A) is wrong but (B) is correct. (D) Both (A) and (R) are wrong.	1
	Question no 6,7 and 8 are case based MCQs so read the paragraph and answer it. A and B are partners with Capitals of Rs 10,00,000 and Rs 6,00,000 respectively. Interest on Capital is agreed @ 5 % p.a. B is to be allowed a salary of Rs 10,000 per month. During the year 2023-24, the profits prior the calculation of interest on capital but after charging B's salary amounted to Rs 3,00,000. Manager is to be allowed a commission of 5% of the profit after charging such commission.	
6.	Manager's Commission will be recorded : (A) In Profit & Loss a/c (B) In Profit & Loss Appropriation A/c (C) In Revaluation A/c (D) In Realisation a/c OR In Case of Fluctuating Capitals, Interest on Capital will be recorded : (A) On the Credit side of current a/c (B) On the Debit side of Current a/c (C) On the Credit Side of Capital a/c (D) On the debit side of Profit & Loss a/c	1
7.	Manager's Commission will amount to: (A) Rs 21,000. (B) Rs 20,000. (C) Rs 8,571. (D) Rs 16,190.	1
8.	Share of Profit will be : (A) A is Rs 1,60,000 and B Rs 1,60,000 (B) A is Rs 1,92,000 and B Rs 1,28,000 (C) A is Rs 1,20,000 and B Rs 80,000 (D) A is Rs 1,00,000 and B Rs 1,00,000	1
	Section B (Each question carries 3 marks)	
9.	Smita, Pratima and Soni were partners sharing Profit & Loss in the ratio 5:3:2. W.e.f. 01 April, 2025, they decided to share future Profit & Loss in the ratio 4:3:2. On the date of reconstitution Goodwill was appearing in the books of ₹ 4,00,000. Goodwill of the firm was valued at ₹ 7,20,000 on the date of reconstitution. Determine gain or sacrifice for each partner and pass necessary entries. OR Kaustav, Natic, Chirag are partners in a firm. You are informed that : I. Kaustav draws Rs 10,000 from the firm in the beginning of every month, II. Natic draws Rs 10,000 from the firm at the end of every month, III. Chirag draws Rs 10,000 from the firm at the beginning of each quarter. Interest on drawings is to be charged @ 8% p.a. Calculate interest on partner's drawings.	3
10.	Write about the provision that should be followed in the absence of the Partnership Deed in the following cases according to Partnership Act, 1932.	3

	i. Interest on Capital ii. Interest on Loan iii. Admission of a New Partner.										
	Section C (Each question carries 4 marks)										
11.	Perna, Sony and Deepshika are partners in a firm. Their profit-sharing ratio is 2:2:1. However, Deepshika is guaranteed a minimum amount of Rs 10,000 as share of profit every year. Any deficiency arising on that account shall be met by Sony. The profits for the two years ending 31 st March, 2022 and 2023 were Rs 40,000 and Rs 60,000 respectively. Prepare Profit & Loss Appropriation Account for the two years.	4									
12.	Anmol, Sanawaj and Tushar were partners sharing Profit & Loss in the ratio 5:3:2. Their Capitals were ₹ 8,00,000; ₹ 7,00,000 and ₹ 5,00,000 respectively. According to Partnership Deed:- (a) Interest on Capital @ 10% p.a. (b) Salary to Anmol ₹ 10,000 p.m. and Tushar ₹ 15,000 per quarter. (c) Commission to Sanawaj ₹ 70,000. (d) Sanawaj was being guaranteed that his share of profits will not be less than ₹ 65,000. Deficiency if any will be borne by Anmol and Tushar equally. Ignoring the above terms the profits of ₹ 6,00,000, for the year ended March 31, 2025 were divided equally between partners. You are required to pass necessary adjustment entry. Show your workings clearly.	4									
	Section D (Each question carries 6 marks)										
13.	i) Prity and Sandhya were partners sharing Profits & Losses in the ratio 3:2. They decided to share future Profits & Losses equally. On the date of reconstitution there was Investment Fluctuation Reserve of ₹ 4,00,000 in the books of accounts. Pass entries in the following cases A. Value of Investment reduced by ₹ 2,50,000. B. Value of Investment increased by ₹ 5,00,000. C. There was no change in value of investments. ii) Aditya, Ved and Roshan sharing profits and losses in the ratio of 3:2:1, decide to share future profits and losses in the ratio of 4:3:2 w.e.f. 1st April, 2017. Following is an extract of their Balance Sheet as at 31st March, 2017; Workmen compensation Reserve- Rs. 60,000 Show the accounting treatment under the following alternative cases- Case-1. If a claim on account of workmen's compensation is estimated at Rs. 24,000. Case-2. If a claim on account of workmen's compensation is estimated at Rs. 60,000. Case-3. If a claim on account of workmen's compensation is estimated at Rs. 75,000.	6									
14.	Varun and Vivek were partners in a firm sharing profits in the ratio of 3:2. The balance in their capital and current accounts as on 1st April, 2022 were as under: <table border="1" data-bbox="322 1576 876 1675"> <thead> <tr> <th>Particulars</th><th>Varun(₹)</th><th>Vivek(₹)</th></tr> </thead> <tbody> <tr> <td>Capital accounts</td><td>3,00,000 (Cr.)</td><td>2,00,000 (Cr.)</td></tr> <tr> <td>Current accounts</td><td>1,00,000 (Cr.)</td><td>28,000 (Dr)</td></tr> </tbody> </table> The partnership deed provided that Varun was to be paid a salary of ₹ 5,000 p.m. whereas Vivek was to get a commission of ₹ 30,000 for the year. Interest on capital was to be allowed @ 8% p.a. whereas interest on drawings was to be charged @ 6% p.a. The drawings of Varun were ₹ 3,000 at the beginning of each quarter while Vivek withdrew ₹ 30,000 on 1st September, 2022. The net profit of the firm for the year, 2022-23, before making the above adjustments was ₹ 1,20,000. Prepare Profit and Loss Appropriation Account and Partners' Capital and Current Accounts.	Particulars	Varun(₹)	Vivek(₹)	Capital accounts	3,00,000 (Cr.)	2,00,000 (Cr.)	Current accounts	1,00,000 (Cr.)	28,000 (Dr)	6
Particulars	Varun(₹)	Vivek(₹)									
Capital accounts	3,00,000 (Cr.)	2,00,000 (Cr.)									
Current accounts	1,00,000 (Cr.)	28,000 (Dr)									
15.	Calculate goodwill of a firm on the basis of three year's purchase of the weighted average profits of the last four years. The profit of the last four years was: 2012	6									

Rs. 20,200; 2013 Rs. 24,800; 2014 Rs. 20,000 and 2015 Rs. 30,000. The weights assigned to each year are : 2012 – 5; 2013 – 4; 2014 – 3 and 2015 – 2.

You are supplied the following information:

- * On September 1, 2014 a major plant repair was undertaken for Rs.6,000, which was charged to revenue. The said sum is to be capitalised for goodwill calculation subject to adjustment of depreciation of 10% p.a. on reducing balance method.
- * The Closing Stock for the year 2013 was overvalued by Rs. 2,400.
- * To cover management cost an annual charge of Rs. 4,800 should be made for purpose of goodwill valuation.

OR

1. The goodwill of a firm is to be worked out at three years' purchase of the average profits of the last five years which are as follows:

Years	Profits (Loss) (Rs.)
2012	10,000
2013	15,000
2014	4,000
2015	(5,000)
2016	6,000

ii. Antra & Anshika were partners in a firm sharing profit and loss equally. Their capital was : Antra Rs 1,20,000 and Anshika Rs 80,000. The annual rate of interest is 20%. The profit of the firm for the last 3 years were Rs 34,000; Rs 38,000; and Rs 30,000. They admitted Taposh as a new partner. On Taposh's admission the goodwill of the firm was valued at 2 years purchase of super profits. Calculate the value of goodwill of the firm on Taposh's admission.

iii. Atul Brothers earn an average profit of Rs. 30,000 with a capital of Rs. 2,00,000. The normal rate of return in the business is 10%. Using capitalisation of super profits method work out the value the goodwill of the firm

***** Do Your Best *****

HAPPY HOLIDAY

**Remember to stay safe, take care of yourself, and come back refreshed and ready for new
adventure in learning.**

HOLIDAY HOMEWORK (2026-27)
CLASS: 12 'Commerce' Sub: ECONOMICS

- 1. Solve MT 1 question paper in your notebook.**
- 2. Make a complete note on chapter National Income.**
- 3. Practice at least 5 numericals per day from Estimation of National Income using three different methods.**
- 4. Project topic:**
 - Roll 1-5: Impact of UPI on cash transaction in India.**
 - Roll 6-10: Union Budget of India :Analysis and impact.**
 - Roll 11-15: Impact of inflation on different income groups.**
 - Roll 16-20: Artificial Intelligence and Employment.**
 - Roll 21-25: Educated Unemployment in India.**
 - Roll 26-30: Government expenditure on Education and Health.**
 - Roll 31-34: India's Economic Growth after Digitalization.**