

PM SHRI KENDRIYA VIDYALAYA AFS KUMBHIRGRAM

SUMMER VACATION HOLIDAY HOMEWORK

SESSION: 2026-27

Class I



केन्द्रीय विद्यालय संगठन
KENDRIYA VIDYALAYA SANGATHAN

PM SHRI

KENDRIYA VIDYALAYA AFS KUMBHIRGRAM



Empowering Minds.
Transforming India.
PM SHRI SCHOOL



कक्षा - I (2026-27) - हिंदी

ग्रीष्मावकाश गृहकार्य



Duration : 08 May to 16 June

उद्देश्य : हिंदी भाषा कौशल (सुनना, बोलना, पढ़ना और लिखना) का विकास करना।

1 - परिचय एवं लेखन

- ★ अपना नाम, माता-व पिता का नाम हिंदी में लिखना सीखें।
- ★ मेरा नाम: _____
- ★ माता का नाम: _____
- ★ पिता का नाम: _____



2 - वर्णमाला और चित्रकला

- ★ हिंदी वर्णमाला 'अ से अः' और 'क से ज्ञ' लिखिए व पढ़ना सीखें एवं उनसे संबंधित एक चित्र लगाए या बनाए।

अ } अः अनार
अः अनार



3 - वर्णमाला गीत याद करें

- ★ हिंदी वर्णमाला गीत याद करें और उसे हाव-भाव के साथ गाएं।

अ से अनार दानेदार...
अ से अनार दानेदार...
अ से अनार दाने...



4 - परिवार गीत/कविता

- ★ परिवार के सदस्यों से जुड़ा कोई गीत या कविता याद करें और उसे कक्षा में सुनाएं।
- ★ पापा मेरे सबसे अच्छे...
- ★ पापा मेरे सबसे अच्छे...
- ★ पापा मेरे सबसे अच्छे...! ♥

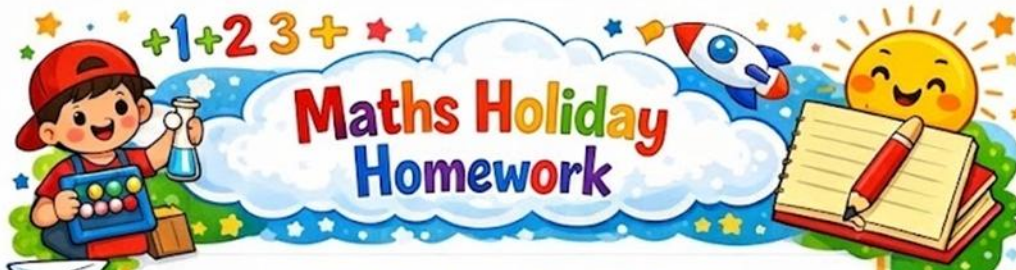
This is me!



IMPORTANT INSTRUCTIONS

- Do all work in a separate thin notebook.
- Use neat and clean handwriting.
- Make your work colorful and creative.
- Practice regularly with your family.

आनंददायक और सुखद ग्रीष्मावकाश वितारें
HAVE A FUN & HAPPY SUMMER VACATION!




+1+23+*

Maths Holiday Homework

PM SHRI KV AFS KUMBHIRGRAM

Class – I

Subject: Mathematics



1. Write numbers from 1 to 100.

2. Write reverse counting from 50 to 1.

Draw any two objects for each of the following shapes:

- Circle
- Square
- Triangle
- Star
- Rectangle

4. Count the following items available at your home and draw the picture of any ONE item only:


- Number of spoons: _____
- Number of windows: _____
- Number of bangles on your mother's hand: _____
- Number of plants in your garden: _____
- Number of toys you have: _____

Do the given work in a thin notebook.

* Project work-

Make a mini number book from 1 to 20.

Hint:
 Example: Number – 5
 Number name – Five
 Draw five objects
 Use one page for each number.



4+3=??

CLASS 1



केन्द्रीय विद्यालय संगठन
KENDRIYA VIDYALAYA SANGATHAN

★ PM SHRI ★
KV AFS
KUMBHIRGRAM



CLASS I (2026-27)
SUMMER VACATION
HOLIDAY HOMEWORK



Duration : 08 May to 16 June

Objective : To develop English language skills
(Listening, Speaking, Reading & Writing)

1 RHYME TIME! (Listening & Speaking Skills)

- ★ Learn and recite any 5 English rhymes.
- ★ Speak clearly with actions and expressions.



2 ALPHABET FUN! (Writing Skills)

- ★ Write 5 words for each letter.

A A: Apple, Ant, Axe, Air, Arm

B B: Ball, Bat, Boy, Bag, Bus

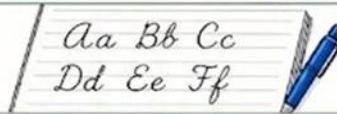
- Continue for all letters in your notebook.

A B C



3 CURSIVE PRACTICE (Handwriting Skills)

- ★ Practice neat cursive handwriting daily.
- ★ Write at least one page every day.



4 ALL ABOUT ME (Writing + Speaking Skills)

- ★ Write and learn these sentences:

- ★ My name is _____.
- ★ I am 6 years old.
- ★ I study in Class 1.
- ★ I live in Agartala.
- ★ I love my family ❤️



5 FLASHCARD ACTIVITY (Creative Skills)

- ★ Make 2 colorful flashcards.
- ★ Based on the first letter of your name.
- ★ Use colours, drawings & creativity!

Example (Letter P):



IMPORTANT INSTRUCTIONS

Do all work in a separate thin notebook.

Use neat and clean handwriting.

Make your work colorful and creative.

Practice regularly with your family.

Submit your work after the school reopens.

HAVE A FUN & HAPPY SUMMER VACATION!

SUBJECT-MUSIC

प्रश्न 1. राष्ट्रगान याद करें।

प्रश्न 2. किसी 4 वाद्ययंत्र (instruments) का चित्र बनाएं।

प्रश्न 3. विद्यालय प्रार्थना याद करें।

Class II Holiday Homework

Hindi

1. प्रतिदिन 5-6 पंक्तियां हिंदी पुस्तक से पढ़ें।
2. आप सुबह उठकर अपने चारों ओर क्या देखते हैं? 4-5 वाक्य लिखिए।
3. अपनी दादी माँ के बारे में पाँच पंक्तियां लिखिए।
4. पाँच अच्छी आदतों का पोस्टर (A4 शीट) बनाएं।
5. 10 विलोम शब्द लिखकर याद करें।
6. 10 पेज सुलेख लिखें।
7. 'माँ' कविता लिखें व याद करें।
8. किसी एक विषय पर प्रोजेक्ट बनाएं।

English

1. Read 5-6 lines daily and write topic & new words.
2. Write your daily routine.
3. Write 5 sentences about your favourite fruit.
4. Write 10 opposite words.
5. Write 10 pages handwriting.
6. Make a project on any one topic.

Mathematics

1. Solve any 20 two-digit addition questions.
2. Solve any 20 two-digit subtraction questions.
3. Write reverse counting (100-1).
4. Learn tables from 2 to 10.
5. Write number names (1-50).
6. Draw 2D & 3D shapes on A4 sheet.

Note: Complete all work in one separate notebook.

Subject – Music

NOTE: MUSIC HOMEWORK WILL BE DONE IN MUSIC NOTEBOOK.

प्रश्न 1. राष्ट्रगान लिखें और याद करें।

प्रश्न 2. किसी 4 वाद्ययंत्र (instruments) का चित्र बनाएं ।

प्रश्न 3. विद्यालय प्रार्थना लिखें और याद करें ।

CLASS -3

विषय- हिंदी



कक्षा 3

हिंदी

ग्रीष्मकालीन अवकाश गृहकार्य

मई - जून 2026

पढ़ो हिंदी,
समझो हिंदी,
बोलो हिंदी,
बनो सर्वश्रेष्ठ!



खंड A - पठन कौशल

1. दैनिक पठन

- कोई 5 कहानियां पढ़ें।
- कहानी की किताब/पाठ्यपुस्तक का उपयोग करें।

ध्यान दें:

- ☆ शुद्ध उच्चारण
- ☆ सही गति



2. कहानी के बाद समझ

- पढ़ी गई कहानी पर लिखें:
- ☆ मुख्य विचार
- ☆ 5 नए शब्द



खंड B - लेखन कौशल

3. 10 पेज सुलेख लिखिए।

- प्रतिदिन साफ, सुंदर और सही लिखावट का अभ्यास करें।



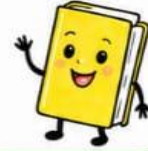
4. अनुच्छेद लेखन

- किसी एक विषय पर 8-10 पंक्तियाँ लिखें:
- ☆ मेरा प्रिय खेल
- ☆ मेरा पसंदीदा त्योहार
- ☆ मेरी छुट्टियाँ
- ☆ चित्र भी बनाएं।



5. व्याकरण अभ्यास

- लिखें:
- ☆ 10 संज्ञा शब्द
- ☆ 10 क्रिया शब्द
- ☆ 10 विशेषण शब्द



खंड C - रचनात्मक गतिविधियाँ

6. चित्र देखकर कहानी

- चित्र देखकर 5-6 पंक्तियों की कहानी लिखें।



शामिल करें:

- ☆ पात्र
- ☆ स्थान
- ☆ घटना

7. पोस्टर बनाएं।

- विषय:
- ☆ जल बचाओ
- ☆ पर्यावरण बचाओ
- ☆ रंगों का उपयोग करें।



खंड D - बोलने का अभ्यास

9. कविता पाठ

- 2 हिंदी कविताएँ याद करें।
- भाव के साथ सुनाएं।



खंड E - शब्द भंडार

10. शब्द संग्रह

- 25 नए शब्द लिखें।
- उनके अर्थ लिखें।

11. विलोम / पर्यायवाची

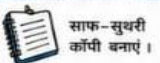
- लिखें:
- ☆ 10 विलोम शब्द
- ☆ 10 पर्यायवाची शब्द



खंड F - गतिविधि / प्रोजेक्ट

13. दैनिक अवलोकन

- मई तथा जून महीने के 5 समाचार लिखिए।
- प्रतिदिन समाचार पत्र पढ़ें।



साफ-सुथरी कॉपी बनाएं।



रंग, चित्र और लेखा का सही प्रयोग करें।



नियती समय पर अभ्यास करें।



छुट्टियों के बाद जमा करें।

हिंदी है हमारी पहचान,
इससे ही है हमारी शान!
अच्छा पढ़ें, अच्छा लिखें,
बनें एक महान!



SUBJECT- ENGLISH

1. Reading Practice

Read any short story book daily for 10–15 minutes.

Write the name of the story and 2–3 lines about it.

2. Writing Practice

Write 10 sentences on any one topic:

My Best Friend/ My Favourite Teacher/ My School

3. Word Work

A. Write meanings of these words:

Happy, Brave, Beautiful, Fast, Clever

Make sentences using any 5 words.

4. Grammar Practice

A. Fill in the blanks with a / an:

___ apple, ___ boy, ___ elephant, ___ cat

B. Write 5 action words (verbs) and use them in sentences.

6. Story Writing

Write a short story (5–6 lines) with the help of these words:

dog, garden, ball, happy

7. Speaking Activity

A. Learn and speak (practice at home): 🗣️ A small poem or rhyme in English

B. Write 5 good habits you follow every day.

SUBJECT- MATHS

ADDITION:

Do any 20 questions of 3digit addition with carry .

SUBTRACTION:

Do any 20 questions of 3digit subtraction with carry .

LEARN & WRITE TABLES FROM 2 TO 15

MAKE MODEL OF ANY ONE OF THE 3 D SHAPES (CUBE, CUBOID, CONE, CYLINDER, SPHERE)

SOLVE-

1. RIYA HAS 24 CRAYONS AND HER FRIEND GIVES HER 15 MORE. HOW MANY CRAYONS DOES RIYA HAVE NOW?

2. THERE ARE 36 STUDENTS IN CLASS 3A AND 29 STUDENTS IN CLASS 3B. HOW MANY STUDENTS ARE THERE IN BOTH CLASSES TOGETHER?

3. A SHOPKEEPER HAD 80 CHOCOLATES. HE SOLD 27 CHOCOLATES. HOW MANY CHOCOLATES ARE LEFT?

4. THERE ARE 65 MANGOES IN A BASKET. 18 MANGOES ARE EATEN. HOW MANY MANGOES REMAIN?

SUBJECT- TWAU



CLASS 3
EVS
(THE WORLD AROUND US)
SUMMER HOLIDAY HOMEWORK
MAY - JUNE 2026

Observe, Learn, Care and Grow!

SECTION A - MY SURROUNDINGS

1. Observe and Write
★ Write:
★ 5 things seen at home
★ 5 things seen outside



2. Cleanliness Activity
★ Make two lists:

<p style="text-align: center; background-color: #d4edda; padding: 2px;">CLEAN PLACES</p> <ul style="list-style-type: none"> • _____ • _____ • _____ 	<p style="text-align: center; background-color: #f8d7da; padding: 2px;">DIRTY PLACES</p> <ul style="list-style-type: none"> • _____ • _____ • _____
--	--

★ Write 3 ways to keep surroundings clean.



SECTION B - PLANTS & ANIMALS

3. Plant Observation
★ Observe a plant for 3-5 days.
★ Write:
• Growth or changes
• Watering details



4. Animals Around Me
★ List:
• 5 domestic animals
• 5 wild animals
★ Write 1 line about each.



SECTION C - WATER & FOOD

5. Save Water
★ Write 5 ways to save water.
★ Draw a picture.



6. Healthy Food Chart
★ Make a chart of:
★ Breakfast
★ Lunch
★ Dinner
★ Include healthy food.

	MEAL	HEALTHY FOOD
Breakfast		
Lunch		
Dinner		

SECTION D - TRANSPORT & COMMUNITY

7. Means of Transport
★ Draw and name:
• Land transport
• Water transport
• Air transport

LAND

WATER

AIR

8. My Neighbourhood
★ Write:
• Places near your home
• Their use



SECTION E - GOOD HABITS & SAFETY

9. Good Habits
★ Write 5 good habits at:
★ Home
★ School

AT HOME

AT SCHOOL

10. Safety Rules
★ Write safety rules for:
★ Road
★ Home

ROAD SAFETY

HOME SAFETY

SECTION F - ACTIVITY / PROJECT

11. EVS Scrapbook
★ Make a scrapbook with:
• Plants
• Animals
• Transport
★ Use pictures and drawings.



12. Daily Observation Diary
★ Write daily:
★ Weather
★ One new thing learned



SUBMISSION GUIDELINES

Maintain a neat and clean notebook

Use colours, drawings and charts.

Observe and write regularly.

Submit after holidays.

Let's explore the world around us and make it better every day!



SUBJECT- MUSIC

NOTE: MUSIC HOMEWORK WILL BE DONE IN MUSIC NOTEBOOK.

प्रश्न 1. राष्ट्रगान लिखें और याद करें।

प्रश्न 2. किसी 5 वाद्ययंत्र (instruments) का चित्र बनाएं ।

प्रश्न 3. विद्यालय प्रार्थना लिखें और याद करें ।

प्रश्न 4. सारे जहाँ से अच्छा हिन्दोस्ताँ हमारा (समूह गीत) लिखें और याद करें।

प्रश्न 5. संगीत से संबंधित कोई भी एक क्रॉफ्ट बनाएं, जैसे -

- कोई म्यूजिकल इंस्ट्रूमेंट (ढोलक, गिटार, बांसुरी आदि)
- घर में उपलब्ध सामग्री (waste material) का उपयोग कर सकते हैं।

SUBJECT- COMPUTER

*NOTE- DO ALL THE WORK IN SEPARATE THIN NOTEBOOK.

1. Draw and label parts of a computer (Monitor, CPU, Keyboard, Mouse).
2. Write 5 uses of a computer.
3. Paste pictures of input and output devices.
4. Practice typing your name and 5 sentences.

CLASS-4

विषय- हिंदी



कक्षा 4 हिंदी

ग्रीष्मकालीन अवकाश गृहकार्य

(मई - जून 2026)

पढ़ें, सीखें,
लिखें और
आगे बढ़ें!



खंड A - पठन कौशल

1. दैनिक पठन

★ रोज़ 1 पृष्ठ पढ़ें (कहानी/पाठ)।

ध्यान दें:

- शुद्ध उच्चारण
- सही गति



2. पठन के बाद समझ

पढ़े गए पाठ पर लिखें:

- ★ मुख्य विचार
- ★ 5 नए शब्द व उनके अर्थ
- ★ 2 वाक्य अपने विचारों के



खंड B - लेखन कौशल

3. वाक्य लेखन

लिखें 10-12 वाक्य:

- ★ मेरा विद्यालय
- ★ मेरा प्रिय शिक्षक



4. अनुच्छेद लेखन

किसी एक विषय पर 10-12 पंक्तियों लिखें:

- ★ मेरा सबसे अच्छा मित्र
- ★ मेरा पसंदीदा खेल
- ★ मेरी गर्मी की छुट्टियाँ



5. पत्र लेखन

अपने मित्र को छुट्टियों के बारे में पत्र लिखें।



खंड C - व्याकरण अभ्यास

6. शब्द भेद

लिखें:

- ★ 15 संज्ञा
- ★ 15 क्रिया
- ★ 15 विशेषण



8. विलोम / पर्यायवाची

लिखें:

- ★ 15 विलोम शब्द
- ★ 15 पर्यायवाची शब्द

7. काल (Tenses)

लिखें 5-5 वाक्य:

- ★ वर्तमान काल
- ★ भूतकाल



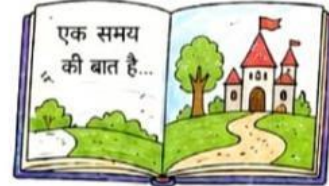
खंड D - रचनात्मक गतिविधियाँ

9. कहानी लेखन

8-10 पंक्तियों की कहानी लिखें।

शामिल करें:

- ★ पात्र
- ★ स्थान
- ★ अंत



10. पोस्टर बनाओ

विषय:

- ★ जल बचाओ
- ★ स्वच्छ भारत



खंड E - बोलने का अभ्यास

11. बोलो और सुनाओ

किसी विषय पर
6-8 वाक्य बोलें।



12. कविता पाठ

2 हिंदी कविताएँ याद करें।
भाव और हाव-भाव के साथ सुनाएँ।



खंड F - प्रोजेक्ट कार्य

13. मेरा शब्दकोश

एक छोटा शब्दकोश बनाएं।
A-Z के अनुसार शब्द
और अर्थ लिखें।



14. दैनिक लेखन

रोज़ लिखें:

- ★ आज का मौसम
- ★ आज क्या नया सीखा



SUBJECT-ENGLISH

1. Write a letter to your friend about how you celebrated your birthday.
2. Write some benefits of group work.

3. Make a poster on the topic "Together We Can".

4. Handwriting Practice (Write 10 times):

"Every morning, I put on my school uniform and backpack. I walk to school with my friends, and we greet our teacher with smiles. In class, we learn new things, read stories, and work on fun projects. My school is a place where I grow and feel excited to learn every day."

5. Write 5 merits and demerits of online classes.

SUBJECT-MATHS

Q1. Look around your home and surroundings.

Write and draw at least 5 objects and identify their shapes.

Q2. Make any 2 models using waste materials:

a) Cube (box)

b) Cylinder (bottle)

c) Cone (paper cone)

d) Sphere (ball)

Q3. Create a picture using shapes (like a house, robot, or scenery).

✓ Use at least 5 different shapes

✓ Colour neatly

Q4. Learn the multiplication table upto 12.

SUBJECT- TWAU

Q1. Paste or draw pictures of at least 5 plants.

Q2. Write 5 good habits to stay clean and healthy.

Q3. Draw a simple map of your neighbourhood.

Q4. Innovative EVS Project: Mini Garden Project (Grow Your Plant)

a) Do this:

i) Plant seeds (coriander/mustard)

ii) Water daily

iii) Observe for 7–10 days

b) Write:

i) Growth changes

ii) Draw stages

SUBJECT- MUSIC

NOTE: MUSIC HOMEWORK WILL BE DONE IN MUSIC NOTEBOOK.

प्रश्न 1. राष्ट्रगान लिखें और याद करें।

प्रश्न 2. किसी 5 वाद्ययंत्र (instruments) का चित्र बनाएं ।

प्रश्न 3. विद्यालय प्रार्थना लिखें और याद करें ।

प्रश्न 4. 'इतनी शक्ति हमें देना दाता' लिखें और याद करें।

प्रश्न 5. संगीत से संबंधित कोई भी एक क्रॉफ्ट बनाएं, जैसे -

- कोई म्यूजिकल इंस्ट्रूमेंट (ढोलक, गिटार, बांसुरी आदि)
- घर में उपलब्ध सामग्री (waste material) का उपयोग कर सकते हैं।

SUBJECT- COMPUTER

*NOTE- DO ALL THE WORK IN SEPARATE THIN NOTEBOOK.

1. Prepare a chart on Input and Output Devices.
2. Draw an autumn scene using MS Paint. Take screen shot of your scenery and paste it in notebook.
3. Write steps to start and shut down a computer.
4. Type a paragraph on "My School". Take screen shoot and paste in notebook .

CLASS-5

विषय- हिंदी

1. अपनी हिंदी की पाठ्यपुस्तक (NCERT) से कोई भी दो पाठ पढ़िए।

2. निम्न विषयों में से किसी एक पर 80-:शब्दों में लिखिए 100

*मेरी ग्रीष्मकालीन छुट्टियाँ

*मेरा प्रिय मौसम

*जल संरक्षण का महत्व

*मेरा पसंदीदा त्योहार

3. व्याकरण)Grammar(

i) 5 संज्ञा शब्द लिखकर उनके प्रकार बताइए।

ii) 5 क्रिया शब्द लिखिए और वाक्य बनाइए।

iii) 5 विलोम शब्द और 5 पर्यायवाची शब्द लिखिए।

iv) काल के (भविष्य ,भूत ,वर्तमान) 2-2 वाक्य बनाइए।

ENGLISH

1. Write a letter to your friend about how you are going to spend your holidays.
2. Write paragraph on any two of the mentioned topics within 100-120 words.
 - a) your favourite festival.
 - b) your favourite colour.
 - c) your special skill.
3. Write 5 merits and demerits of online classes.
4. Make a notice that your school is going to organise a quiz competition on Environment Day.

Or

Make a self-composed poem or story.

SUBJECT- MATHS

NOTE: DO ALL THE HOMEWORK IN A SEPARATE NOTEBOOK.

1. Measure and write down in your notebook.

Bed length, door height, water bottle height, TV width

2. **“ MATHS AROUND ME” Photo project**

Paste or draw 10 examples of maths in daily life: ex. Clock, building, tiles, money, road signs etc.

3. Create a colourful rangoli design using :

Circles, squares, triangles, rectangles

4. Draw multiplication flower from 12-20.

(Center= any number, petals= multiplication table of that number)

5. Collect 4 pictures of your favourite cartoon character and cut it vertically using scissors. Paste that half part in your copy and draw the second half using symmetry.

TWAU:-

Reading Activity

Read any newspaper or magazine for 10–15 minutes daily and complete the table after your activity.

Day	What I Read	2–3 Line Summary	New Words
Mon			
Tue			
Wed			
Thu			

Fri

Writing Activity

Paragraph Writing:

Topic: Journey of a River

Project work. 1

Make a project on A4 sheet -

Roll num 1 to 5 (Water Cycle)

Roll num 6 to 10 (sources of Water)

Roll num 11to 15 (Ways to clean Water)

Roll num 16 to 20. (Water pollution)

Roll num 21to 25(Balance Diet)

Roll num 26 to 30 (Generate Electricity through water)

Roll num 31 to 35 (healthy and unhealthy Food)

Roll num 36 to 41 (Different Food Chain)

****Project -2 ****

Show the Indian river with name on India map with starting and end point & also highlight the starting and end point .

Note :- Holiday homework of all subjects has to be done in one separate notebook.

SUBJECT- MUSIC

NOTE: MUSIC HOMEWORK WILL BE DONE IN MUSIC NOTEBOOK.

प्रश्न 1. राष्ट्रगान लिखें और याद करें।

प्रश्न 2. किसी 5 वाद्ययंत्र (instruments) का चित्र बनाएं ।

प्रश्न 3. विद्यालय प्रार्थना लिखें और याद करें ।

प्रश्न 4. 'इतनी शक्ति हमें देना दाता' लिखें और याद करें।

प्रश्न 5. संगीत से संबंधित कोई भी एक क्रॉफ्ट बनाएं, जैसे -

- कोई म्यूजिकल इंस्ट्रूमेंट (ढोलक, गिटार, बांसुरी आदि)
- घर में उपलब्ध सामग्री (waste material) का उपयोग कर सकते हैं।

SUBJECT- COMPUTER

*NOTE- DO ALL THE WORK IN SEPARATE THIN NOTEBOOK.

1. Type a document (5–7 lines) on “Autumn Season”. Take screen shot of your document and paste in the notebook .
2. Write basic formatting tools (Bold, Italics, Font Size).
3. Make a poster on Internet Safety.
4. Write 5 uses of the Internet.

CLASS VI (2026-27)

HINDI

हिंदी ग्रीष्मकालीन गृहकार्य

1. निम्नलिखित पाठ पढ़ें और इन पर आधारित 100-150 शब्दों का सारांश लिखें:
मातृभूमि, गोला

2. रचनात्मक लेखन (Creative Writing)

निम्नलिखित विषयों में से किसी एक पर 150 शब्दों में निबंध लिखिए:

मेरा प्रिय खेल, मेरा देश, विज्ञान और हमारा जीवन

3. कविता लेखन

अपनी पसंद के किसी भी विषय पर एक कविता (6-8 पंक्तियाँ) लिखें।

4. पठन कार्य तथा शब्दकोश अभ्यास

प्रत्येक दिन पुस्तक से एक पाठ पढ़ें और उसकी सूची निम्नवत तैयार करें।

दिनांक	पाठ का नाम	पृष्ठ सं.	कठिन शब्द तथा उनके अर्थ

इसके बाद 5 महत्वपूर्ण बातें लिखिए जो आपने उन पाठों से सीखी हैं।

5. सुलेख

प्रत्येक दिन एक पृष्ठ लिखने का अभ्यास करें।

6. व्याकरण का अभ्यास

संज्ञा, सर्वनाम और विशेषण की परिभाषा, उनके भेदों तथा उदाहरण सहित लिखें।

परियोजना कार्य (Project Work)

अपनी अंग्रेजी के पुस्तक के किसी एक कविता का हिंदी अनुवाद करें।

CLASS VI ENGLISH

ENGLISH – LESSON 1 & 2

1. READ AND UNDERSTAND

Read the following lessons carefully:

- Lesson 1: A Bottle of Dew
- Lesson 2: The Raven and the Fox

Understand the story, characters, and the message.

2. PARAGRAPH WRITING

Write two paragraphs:

1. Paragraph on Lesson 1 – A Bottle of Dew
2. Paragraph on Lesson 2 – The Raven and the Fox

3. TWO STORIES

Write two short stories (in 100–120 words each):

Story 1: A Bottle of Dew – Write the story of Rama Natha and Sage Mahipati in your own words.

Story 2: The Raven and the Fox – Write the story of the clever fox and the foolish raven in your own words.

4. CHARACTERS AND VALUES

Write the names of the main characters from the lessons and the values taught in each lesson.

5. NEW WORDS

Make a list of 10 new words from both the lessons. Write their meanings and use each word in a sentence.

6. CREATIVE ACTIVITY

- Draw and colour any one scene from each lesson.
- Write a few lines about the scene you drew.
- Present your work neatly.

BE CURIOUS, BE CREATIVE AND DO YOUR BEST!

CLASS VI SANSKRIT

* अकारान्त(जिनके अंत में अ की ध्वनि आती है)पुँल्लिङ्ग शब्द एकवचन द्विवचन बहुवचन रूपाणि (पुँल्लिङ्गः)
लिखित्वा कंठस्थ कुरुत।

Example : बालकः बालकौ बालकाः (Write 15 Words like this)

* आकारान्त (जिनके अंत में आ की ध्वनि आती है)स्त्रीलिङ्ग शब्दाःएकवचन द्विवचन बहुवचन रूपाणि (स्त्रीलिङ्गः)
लिखित्वा कंठस्थ कुरुत।

Example : लता लते लताः (Write 15 words like this)

* संस्कृते ५० गृहसामग्रीनामानि चित्रैः सह लिखित्वा कण्ठस्थं कुर्वन्तु। एतैः शब्दैः वाक्यानि रचयत।

* अस्माकम् सहायकाः, अस्माकं शरीरस्य अङ्गाः, अस्माकं सम्बन्ध-शब्दान् संस्कृते कण्ठस्थं कुर्वन्तु। (Our helpers,
our body parts, our relations, learn these in Sanskrit)

* पठ् , गम् धातुरूपाणि स्मृत्वा लिखत । (लट् - लृट् - लङ्)

* संस्कृत छात्र-प्रतिज्ञां प्रार्थनां च लिखित्वा स्मरत ।

* १-५० संख्या संस्कृते लिखित्वा कंठस्थ कुरुत।(1-50) तक संस्कृत में गिनती लिखें और याद करें।

CLASS VI SCIENCE

1. Collect some seeds around you and paste it in a file. Write their names ,uses (including edible /inedible seeds,health benefits, medicinal uses if any)

OR

The traditional system of medicines is called Ayurveda. Find out some of the useful items from your kitchen which are beneficial for the treatment of some diseases. Make a report on it.

2. Make a poster on the topic:

- i) 'Say no to Plastics'
- ii) 'Importance of energy conservation'

3. Gather information about the kind of crops that are grown in India

. Tabulate the data including the names of crops and states in which the crops are grown.

4. Search and write at least 5 scientific names of the following:

- a) Carnivore animals
- b) Herbivore animals
- c) Plants

CLASS VI

SOCIAL SCIENCE

Map work

1. Label and locate states and union territories on India Map and paste in your notebook.

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

3. What is a Map? What are the different types of Maps? Explain.

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

5. What are the three components of Maps? Explain with examples.

6. What are Latitudes and Longitudes? Explain with a diagram.

7. Write about them-

(i) Geologists (ii) Palaeontologists (iii) Anthropologists (iv) Archaeologists.

8. Delhi's and Bengaluru's latitudes are 29°N and 13°N ; their longitudes are almost the same, 77°E .

How much will be the difference in local time between the two cities? the name of India's neighboring nations.

9. Write the names of all the states and union territories of India and their capitals.

10. Write about the fundamental rights and duties of Indian citizens given by the Indian Constitution.

11. Write about a local historical place nearby you.

12. What are the sources of History? Make a diagram of Sources of History. (Textbook Page no. 67)

13. Complete your Social Science MDP work. (Healthy Food and Nutrition)

CLASS VI

VISUAL ART (Art Education)

Instructions:

- Do all work neatly in your art notebook.
- Use suitable colours (crayons, oil pastel, or watercolors).
- Maintain cleanliness and creativity.
- Submit after the vacation.

1. Nature Composition

Draw and colour a beautiful landscape of a place you visited during your vacation. (sun, trees, river, mountains, birds, etc.).

2. Poster Making

Make a poster on:

“INTERNATIONAL YOGA DAY”

Add a slogan and use bright colours.

CLASS VI

ARTIFICIAL INTELLIGENCE

*NOTE - Do all the work on A4 sheets.

1. Write definition of AI with 5 examples.
2. Draw/paste pictures of AI in daily life.
3. Identify AI vs non-AI objects at home (minimum 6).
4. Make a chart: “Uses of AI”.

CLASS VI

VOCATIONAL EDUCATION

1. Work Around Us:- Using chart paper showing different occupations.
2. Plantation in pot :- (Size of pot should not be small) (Method of plant propagation used either seed or Steam or plant.
Regularly observe and submit on the re-opening day after summer vacation.
3. Make a decorative item.

CLASS VI

MATHEMATICS

CHAPTER - PATTERNS IN MATHEMATICS

WORKSHEET

SECTION – A

Questions 1 to 10 carry 1 mark each.

I. What comes next in: 2, 5, 10, 17, 26, _____ ?

- (a) 37 (b) 38 (c) 40 (d) 42

In a sequence: 1, 3, 7, 15, ___ each term doubles and subtracts 1. What is the missing term?

30 (b) 31 (c) 29 (d) 32

A pattern uses the rule: multiply by 4, subtract 2. First term is 2. What is the 3rd term?

28 (b) 22 (c) 32 (d) 26

If a star pattern begins as ★, ★★★, ★★★★★, ★★★★★★★, how many stars in 6th term?

(a) 9 (b) 10 (c) 11 (d) 13

5. How many sides will there be in 35 decagons?

(a) 300 (b) 350 (c) 360 (d) 380

6. Pattern. 10, 14, 20, 28, ____?

(a) 36 (b) 38 (c) 40 (d) 42

7. What is the missing number in: 1, 4, 9, 16, 25, 36, _____, 64?

(a) 48 (b) 49 (c) 54 (d) 56

8. A circle pattern starts with 3 circles and triples each step. Find circles in 4th step.

(a) 81 (b) 72 (c) 243 (d) 90

In the following questions 9 and 10, a statement Of assertion (A) is followed by a statement of Reason (R). Choose the correct answer out of the following choices.

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

A is true but R is false.

A is false but R is true.

9. Assertion (A): The missing number in the pattern 2, 6, 12, _____, 30 is 20.

Reason (R): Each term is obtained by multiplying the previous number by 2.

10. Assertion (A): In the pattern 100, 90, _____, 70, the missing number is 80. Reason (R): The numbers are decreasing by 10 in each step

(SECTION -B) Questions 11 to 14 carry 2 marks each.

11. Complete and explain: 800, 400, 200, 10

12. Pattern: •◆◆ ■■◆◆◆. Predict next two terms. Explain

13.. Pattern: 3, 7, 15, _____, 63

Find the missing number. (b) Justify your answer.

14. How many sides in total are present in 12 octagons? Show your working.

SECTION – C

Questions 15 to 17 carry 3 marks each.

15. Pattern: 2, 5, 10, 17, 26, __, __ (a) Find next two terms.

Write the differences between terms.

Identify the logic and complete the pattern.

16. Pattern. 1, 3, 6, 10, 15, ...

What are the 6th and 7th numbers?

—, —

Find the sum of the 5th and 6th terms.

What is the difference between 4th and 2nd term?

17. Pattern: 2, 3, 5, 9, 17, ... (a) Find the next two terms.

What is the 8th term?

Find the sum of the 4th and 5th terms.

SECTION – D

Questions 18 carry 5 marks each.

18. Poles are placed along a road as follows:

1st km: 3 poles

2nd km: 6 poles

3rd km: 12 poles

4th: ? 5th : ?

(a) What pattern do the pole numbers follow?

(b) How many poles on 4th km?

(c) How many poles on 5th km?

(d) Total poles in 5

(e) Difference between poles on 5th and 1st km?

SECTION -E (CASE STUDY QUESTION)

4 marks each

19. At a large banquet hall construction site, a tiling company was hired to design a stylish floor. The architect chose a repeating tile pattern to reduce cost and avoid mismatched designs. The company used a sequence of 3 black tiles followed by 7 white tiles, continuing this till 500 tiles were laid. The workers needed to estimate how many tiles of each color were required to avoid shortages during the installation



Questions based on above information:

How many full tile pattern sets can be formed using 500 tiles?

How many black tiles are used in total?

How many white tiles are used in total?

What will be the color of the 456th tile?

20. For a night football match, a stadium lighting company was tasked with installing decorative lights across the upper deck. The lights were programmed in a repeating pattern: 6 red lights followed by 10 blue lights. This pattern was followed continuously for a total of 256 lights. The operations team had to plan the wiring and light order carefully to avoid last-minute confusion and ensure a synchronized lighting show.



Questions based on above information:

How many complete lighting pattern cycles can be made using 256 lights?

How many red lights are used in total?

How many blue lights are used in total?

What will be the colour of the 255th light in the sequence?

CLASS VII

HINDI

1. निम्नलिखित पाठ पढ़ें और इन पर आधारित 100-150 शब्दों का सारांश लिखें:

माँ कह एक कहानी, तीन बुद्धिमान

2. रचनात्मक लेखन (Creative Writing)

निम्नलिखित विषयों में से किसी एक पर 150 शब्दों में निबंध लिखिए:

1) मेरा प्रिय त्योहार 2) अगर मैं पक्षी होता/होती 3) विज्ञान और हमारा जीवन

3. संवाद लेखन

एक बाजार में फल विक्रेता और ग्राहक के बीच का संवाद (8-10 पंक्तियाँ)

4. कविता लेखन

अपनी पसंद के किसी भी विषय पर एक कविता (6-8 पंक्तियाँ) लिखें।

5. पठन कार्य तथा शब्दकोश अभ्यास

प्रत्येक दिन पुस्तक से एक पाठ पढ़ें और उसकी सूची निम्नवत तैयार करें।

दिनांक	पाठ का नाम	पृष्ठ सं.	कठिन शब्द तथा उनके अर्थ

इसके बाद 5 महत्वपूर्ण बातें लिखिए जो आपने उन पाठों से सीखी हैं।

6. सुलेख

प्रत्येक दिन एक पृष्ठ लिखने का अभ्यास करें।

7. व्याकरण का अभ्यास

संज्ञा, सर्वनाम तथा विशेषण की परिभाषा उनके भेदों को और उदाहरण सहित लिखें।

परियोजना कार्य:- अपनी अंग्रेजी के पुस्तक के किसी एक कविता का हिंदी अनुवाद करें।

CLASS VII

ENGLISH

- Write five descriptive sentences using at least three "strong adjectives" (e.g., *vibrant, majestic, tiny*).
- **Idiom Illustration:** Choose any two English idioms related to summer or nature (e.g., "*A ray of sunshine*" or "*As fresh as a daisy*"). Draw a literal meaning on one side and write its actual meaning and a sentence on the other.
- **Word Hunt:** Find 10 new words from the first two chapters of your *Poorvi* textbook. Create a "Vocabulary Fan" by writing the word on the front and its synonym/antonym on the back.

- Identify 10 action words (verbs) from a newspaper article and change them into their Past and Past Participle forms.
- Rewrite the following paragraph with correct capital letters, commas, and full stops:
"*last sunday rahul and meena went to the delhi zoo they saw lions tigers and elephants rahul said wow look at that tall giraffe*"
- **Sentence Transformation:** Write five sentences about your favorite hobby. Then, transform each sentence into a Negative and an Interrogative (question) form.

Creative Task

- **Comic Strip Creation:** Create a 4-panel comic strip based on the theme "A Day with a Talking Animal." Use speech bubbles and colorful illustrations to tell your story.
- **Poetry Corner:** Write a short "Acrostic Poem" using the word **SUMMER**.

Example:

S- Sun shining bright...

U- Under the shade...

Real-Life Application

- **The Kitchen Chemist:** Help your parents make a refreshing summer drink (like Nimbu Pani or Aam Panna). Write down the "Recipe" in English using sequence markers like *First, Then, Next, After that,* and *Finally*.

Reading / Research Task

- **Author Spotlight:** Read a short story by **Ruskin Bond** or **Sudha Murty**. Write a brief "Book Review" (80–100 words) mentioning:
 1. Title and Author
 2. Your favorite character

3. One thing you learned from the story

Presentation Instruction

- All work should be compiled in a neat **Creative Portfolio** (A4 size sheets tied with a ribbon or placed in a folder).
- Use light-colored sheets for writing and plain white sheets for drawings/posters.
- Decorate the cover page with the title "My English Summer Odyssey."

Submission Guidelines (IMPORTANT)

- **Last Date of Submission:** 25th June 2026.
- **Format:** Project file with A4 sheets.
- **Neatness:** Use a blue gel pen for writing and black for headings.

CLASS VII

SCIENCE

1. Create a colourful poster on: "Acids and Bases in Everyday Life"
Include: Daily life examples.
2. Design a small "Safety Card": Do's and Don'ts while handling acids and bases.
3. Perform a mini experiment on Effect of soap solution on turmeric stain: Observe colour change & explain why it happens. (Suggestion- Paste pictures of the experiment's performed)

CLASS VII

MATHEMATICS

SECTION – A

Questions 1 to 10 carry 1 mark each.

1. 5 million is equal to how many lakhs?
(a) 500 lakh (b) 5 lakh (c) 50 lakh (d) 25 lakh
2. Which of the following is correctly expressed in International system?
(a) 75,00,000 (b) 7,500,000 (c) 750,00,00 (d) 7,50,00,000
3. 1,23,45,678 is read in Indian system as:
(a) 1 crore 23 lakh 45 thousand 678
(b) 12 crore 34 lakh 56 thousand 78

(c) 1 crore 2 lakh 3 thousand 4 hundred

(d) 123 million 456 thousand 78
4. In International system, commas are placed after every:
(a) 2 digits (b) 4 digits (c) 3 digits (d) 5 digits
5. A football stadium can seat approximately 68,000 people. The nearest thousand is:
(a) 60,000 (b) 68,000 (c) 70,000

(d) 1,00,000

6. If a farmer produces 1,00,000 kg of rice per month, in 12 months he produces:

- (a) 1 crore kg (b) 12 lakh kg (c) 10 lakh kg
(d) 15 lakh kg

7. Which number is larger?

- (a) 50 million (b) 5 crore
(c) Both are equal (d) 1 billion

8. Which city's approximate population could be 1.5 crore?

- (a) Hyderabad (b) Mumbai (c) Delhi (d) All of these

In the following questions 9 and 10, a statement of assertion (A) is followed by a statement of Reason (R). Choose the correct answer out of the following choices.

- (a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true but R is not the correct explanation of A.
(c) A is true but R is false.
(d) A is false but R is true.

9. Assertion (A): 1 million equals 10 lakh.

Reason (R): In Indian system, large numbers are grouped in thousands and millions.

10. Assertion (A): Estimation helps in quick decision making.

Reason (R): Exact calculations are always preferred over estimation.

SECTION – B

Questions 11 to 14 carry 2 marks each.

11. Write 4,36,21,015 in words using Indian system.

12. Round 92,58,000 to nearest crore.

13. Write the difference and express in words: (a) 8 crore – 3 crore 70 lakh. (b) Use Indian system.

14. Convert: (a) 9.8 crore into millions (b) 145 million into crore.

SECTION – C

Questions 15 to 17 carry 3 marks each.

15. Estimate: $2,39,485 + 6,71,832$ by rounding each to nearest lakh.

16. Express 75,38,46,120 in words using both the Indian and International Systems.

17. Write the numbers and Arrange the following in descending order:

3 crore 15 lakh, 98 lakh 60 thousand, 5 crore 8 lakh, 9 crore 3 lakh.

SECTION – D

Questions 18 carry 5 marks each.

18. The population of City A is 37,45,280 and City B is 1,02,95,800. A new survey predicts that the population of City A will increase by 8,45,000 in the next 5 years, and City B's population will rise by 5,00,000 in the same period.

- (a) Estimate and find the future population of both cities.
(b) Compare their future populations using $<$, $>$, or $=$.

(c) Round off the future population of both cities to the nearest lakh.

SECTION – E (Case Study Based Questions)

Questions 19 to 20 carry 4 marks each.

19. A mobile phone factory currently produces 18,000 phones daily. Management plans to expand production to 25,000 phones daily starting next year. Based on daily output, they need an annual production estimate to prepare raw materials, staffing, and storage facilities. Without calculating large numbers efficiently, the company risks running short of resources or overstocking products.



Based on this, Answer the following questions

- (i) Calculate current annual production (365 days). (1)
- (ii) Calculate future projected annual production. (1)
- (iii) Express both in lakhs and crores. (2)

20. Green Valley School spends 23547500 annually for staff salaries, maintenance, and electricity. Before the new academic year, the school principal must present a clear financial report to staff and parents. Reporting the budget using Indian and International systems improves understanding and prevents confusion. Clear financial presentations help parents trust school management.



- (i) Place commas using both systems. (2)
- (ii) Write ₹23547500 in Indian system (in words). (1)
- (iii) Write in International system (in words). (1)

CLASS VII

SOCIAL SCIENCE

1. Map work (Label and locate states and union territories with their capitals on India Map and paste in your notebook)
2. What are some key geographical features of India?
3. Write about a tourist place in India which you like the most.
4. What are the three main ranges of Himalaya? Explain.
5. Write about the 'Cold Desert of India'
6. Write a paragraph on World Environment Day (5 June).
7. Write about a local historical place nearby you.
8. Write about the fundamental rights and duties of Indian citizens given by the Indian Constitution.
9. Complete your Social Science MDP work. (Water Conservation).
10. Write and learn the 'Preamble' of the Indian Constitution.
11. Imagine you are a historian studying ancient India. What types of sources (archaeological, literary, etc.) would you use to learn more about the mahājanapadas?
12. "The introduction of iron metallurgy was a key catalyst for the Second Urbanisation." Evaluate this statement.

CLASS VII

ART EDUCATION

Instructions:

- Do all work neatly in your art notebook.
- Use suitable colours (crayons, oil pastel, or watercolors).
- Maintain cleanliness and creativity.
- Submit after the vacation.

1. Nature Composition

Draw and colour a beautiful landscape of a place you visited during your vacation.(sun, trees, river, mountains, birds, etc.).

2. Poster Making with a slogan.

Topics (any 02):

“INTERNATIONAL YOGA DAY”

“CYBER SECURITY “

“SAVE EARTH, SAVE FUTURE”

Note:- Use bright colours.

CLASS VII

ARTIFICIAL INTELLIGENCE

*NOTE - Do all the work on A4 sheets.

1. Write notes on AI in Education and Healthcare.
2. List 5 apps using AI.
3. Make a poster: "AI – Helpful or Harmful?"
4. Write difference between regression and clustering? With example

CLASS VII

WORK EDUCATION

1. Make a Bio diversity Register.
2. Plantation in pot. (Size of pot should not be small). Regular observation and Fill up information.

Sl. No	Name of Plant	Method of plant propagation used either seed or Steam or small plant.	How are conditions for healthy growth being provided to the plants.	Any special care required by plant (yes/no.) If yes, what is to be done.

Submission of poted plant after summer vacation.

3. Make a decorative pot using shilpker.

CLASS VII

SANSKRIT

* सुभाषितानि श्लोकान् लिखत , कण्ठस्थीकुरुत ।

Write सुभाषितानि Poems and Learn

* संख्या: 1 - 50 संस्कृते लिखत, कण्ठस्थीकुरुत ।

Write 1-50 numbers in Sanskrit

- * किम् , एतत्, तत् शब्दः (पुँल्लिङ्ग-स्त्रीलिङ्ग-नपुंसकलिङ्गाः) शब्दरूपः, कण्ठस्थीकुरुत ।
- * धातुरूपाणि (पठ् , खाद् , क्रीड् , भू, स्था, पच) लट्-लृट्-लङ् (वर्तमान- भविष्यत्-भूतकालाः) लिखत, कण्ठस्थीकुरुत ।
- * संस्कृत प्रतिज्ञां लिखित्वा कण्ठस्थीकुरुत ।
- * संस्कृते ५० गृहसामग्रीनामानि चित्रैः सह लिखित्वा कण्ठस्थं कुर्वन्तु। एतैः शब्दैः वाक्यानि रचयत।

CLASS VIII

HINDI

(पाठ्यक्रम पर आधारित व रचनात्मक गतिविधियाँ)

1. पाठ्यपुस्तक कार्य

निम्नलिखित पाठ पढ़ें और इन पर आधारित 100-150 शब्दों का सारांश लिखें:

1. स्वदेश
2. दो गौरैया

प्रत्येक पाठ से 20-20 कठिन शब्द चुनकर उनके अर्थ लिखें।

2. व्याकरण अभ्यास

वाक्य के सभी भेदों के 5-5 उदाहरण तथा प्रत्येक का वाक्य परिवर्तन करें।

निम्नलिखित विषयों पर 150 शब्दों का अनुच्छेद लिखें:

1. मेरे जीवन का लक्ष्य
2. पुस्तकें - हमारी सच्ची मित्र

3. रचनात्मक लेखन

आप श्यामला या दिनेश है। आपके क्षेत्र में मॉल निर्माण हेतु पेड़ों की अनियंत्रित कटाई हो रही है। इस पर अंकुश लगाने हेतु जिला अधिकारी को लगभग 120 शब्दों में पत्र लिखिए।

एक पत्र अपने मित्र के पास लिखिए जिसमें आप अपने गाँव की यात्रा का वर्णन करें।

प्रत्येक दिन पुस्तक से एक पाठ पढ़ें और उसकी सूची निम्नवत तैयार करें।

दिनांक	पाठ का नाम	पृष्ठ सं.	कठिन शब्द तथा उनके अर्थ

इसके बाद 5 महत्वपूर्ण बातें लिखिए जो आपने उन पाठों से सीखी हैं।

4. परियोजना कार्य (Project Work)

भारत के किसी एक प्रसिद्ध लेखक/कवि (जैसे: प्रेमचंद, महादेवी वर्मा, हरिवंश राय बच्चन आदि) पर A4 शीट पर एक पृष्ठ का परिचयात्मक (introductory) लेख तैयार करें। चित्र लगाना ऐच्छिक है।

CLASS VIII

ENGLISH

1. Revise the chapters taught so far and prepare a short summary of each chapter in your own words. (100–120 words)
2. Suppose you discover a magic door in your house that takes you to another world. Write about your journey and the people or creatures you meet there. (Imaginative Essay)
3. You are Kartik/ Kiyara who had joined an Eco-club in your city where you were given insightful ideas for saving nature. Write an article on “Save planet, save lives”.
4. Your school is going to organise a summer camp for various activities contributing towards holistic development. Being a Sports Captain of your school write a brief notice giving all necessary details.
5. You have been facing problems due to the poor condition of roads in your locality, especially during the rainy season. Potholes and waterlogging are causing inconvenience and accidents. Write a letter to the Municipal Corporation complaining about the bad condition of the roads and requesting immediate repair.
6. How does wit and intelligence help in solving difficult situations? Explain with examples from the story.
7. Compare the poet’s and Mrs’s Jones understanding of a garden.

8. WRITE A BOOK REVIEW

Choose any English book or story you’ve recently read (fiction or non-fiction). It can be a novel, short story, or even a children’s classic (e.g., *Charlie and the Chocolate Factory*, *The Secret Garden*, *Diary of a Wimpy Kid*, *Panchatantra Stories*).

Your book review should include- Title of the book, author, genre, main characters, summary, message or moral.

9. **ACTIVITY** – “Voices of Objects” (Personification Writing Task)

Imagine that an everyday object around you (such as a school bag, pencil, clock, or book) can speak.

- Write a short poem or paragraph from the object’s point of view
- Use personification (give human feelings and actions)
- Include at least 3 descriptive words and 2 rhyming pairs
- You may add a small drawing of the object (Use A4 size page for the activity)

SCIENCE

VIII A

Chapter: The Invisible Living World

Activity 1: Plant Cell and Animal Cell Model

Create a 3D model or a colorful labeled drawing comparing a plant cell and an animal cell. Clearly label the following parts:

- Cell membrane
- Cytoplasm
- Nucleus
- Cell wall (plant cell only)
- Chloroplasts (plant cell only)

Use clay, cardboard, waste materials, colored paper, or thermocol to make your model attractive and creative.

Activity 2: Real Manure Pit

Prepare one real manure pit at home or in a garden area using biodegradable waste materials such as vegetable peels, dry leaves, fruit waste, and garden waste.

Observe the decomposition process and write a short report including:

- Materials used
- Steps followed
- Role of microorganisms in decomposition
- Benefits of manure for plants and soil

You may also attach photographs or drawings of your manure pit.

Activity 3: Creative Task

Make a colorful poster on the topic:

“Microorganisms – Friends and Foes”

Include drawings and slogans. (IN A3 SHEET).

Instructions

- Complete all activities neatly in a separate holiday homework notebook.
- Use colors and diagrams wherever necessary.
- Submit the homework after the summer vacation.
- Write your name, class, and roll number clearly.

Solve the below questions in your class copy

Additional Long Answer & Conceptual Questions

1. Who published the book Micrographia in 1665, and what significant scientific term did he introduce after observing a thin slice of cork?
2. Why is Antonie van Leeuwenhoek known as the 'Father of Microbiology', and what were some of the tiny living things he was the first to describe?

3. What are the three main parts of a cell, and what role does the nucleus play in its functioning?
4. Identify two structures found in plant cells that provide strength and help with photosynthesis, which are typically absent in animal cells.
5. Explain the five levels of organization in a complex living organism, starting from the basic building block.
6. How does the unique shape and structure of a nerve cell (neuron) relate specifically to its function in the human body?
7. Describe the role of the bacterium *Lactobacillus* in the formation of curd from milk.
8. Why does adding yeast powder and sugar to dough cause it to rise and become soft and fluffy?
9. Why is the microalga *Spirulina* referred to as a 'superfood', and what essential vitamin does it provide?
10. What is biogas, and how is it produced by microorganisms in an oxygen-free environment?
11. What was the major contribution of scientist Ananda Mohan Chakrabarty toward solving environmental pollution, and what legal protection did he receive for his discovery?

VIII B

1. Make a chart dividing microorganisms into:
 - Useful (curd formation, medicine, nitrogen fixation)
 - Harmful (diseases, food spoilage)
2. Observe hygiene practices at home: Handwashing, food storage, cleanliness
 - Identify where microbes may grow
 - Suggest improvements (Q.2 To be done in a tabular format in A4 size sheet)

CLASS VIII

MATHEMATICS

SECTION -A

Questions 1 to 10 carry I mark each.

1. Which of the following numbers will definitely not be a perfect square?
(a) 1936 (b) 2500 (c) 1729 (d) 1600
2. The number of lockers that remain open in the "locker puzzle" with 225 lockers is: (a) 15 (b) 225 (c) 30 (d) 16
3. Which of the following square numbers will end with the digit 1?
(a) 15^2 (b) 18^2 (c) 21^2 (d) 32^2
5. Which of the following is not a perfect cube?
(a) 2197 (b) 2744 (c) 4913 (d) 2500
6. The value of 126^2 , if $125^2 = 15625$, is:

(a) $15625 + 126$ (b) $15625 + 251$ (c) $15625 + 253$ (d) $15625 + 252$

7. The cube root of 3375 is:

- (a) 12 (b) 15 (c) 18 (d) 25

8. Which of the following numbers is not perfect cube?

4. The smallest number by which 882 must be multiplied to make it a perfect square is: (a) 2 (b) 3 (c) 7 (d) 11

- (a) 1331 (b) 512 (c) 1000 (d) 2000

In the following questions 9 and 10, a statement of assertion (A) is followed by a statement of reason (R). Choose the correct answer out of the following choices.

- (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true.

9. Assertion (A): A square number always has an odd number of factors.

Reason (R): Square numbers have one unpaired factor which is repeated.

10. Assertion (A): No cube can end with exactly two zeros.

Reason (R): Cube numbers always contain factors grouped

SECTION - Questions 11 to 14 carry 2 marks each.

11. Find the smallest square number which is exactly divisible by 12, 15, and 20.

12. Find the square root of 2401 by prime factorisation method.

13. Find the cube root of 2744, by the prime factorisation method.

14. Find the smallest number by which 200 must be multiplied so that the product becomes a perfect cube.

SECTION - C

Questions 15 to 17 carry 3 marks each.

15. Find the smallest number by which 405 must be divided to obtain a perfect square. Also, find the square root of the quotient.

16. Find the smallest number by which 1352 must be multiplied so that the product has a cube root. Also, find the cube root of the product.

17. Find the smallest number by which 1536 must be divided so that the quotient has a cube root. Also, find the cube root of the quotient.

SECTION - D

Questions 18 carry 5 marks each.

18. A school has 1475 students. What is the minimum number of students that need to be added so that the total number of students can be arranged in a perfect square grid?

SECTION – E (CASE STUDY BASED QUESTIONS)

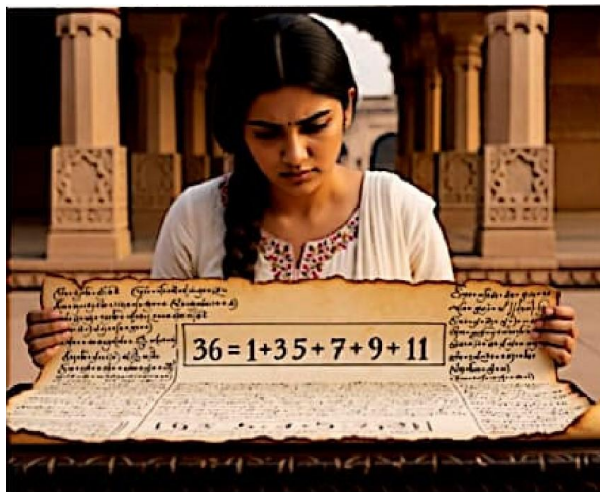
Question 19 to 20 carry 4 mark

19. Case Study 1 (Squares and Odd Numbers)

Riya was reading about ancient Indian mathematicians. She discovered that square numbers can be expressed as the sum of consecutive odd numbers. She tried with 36:

$$36=1 +3 +5+7+9+11,$$

She wondered if she could find other squares this way. She also noticed that the number of odd numbers added equals the square root of the number.



Answer the following:

(a) Express 49 as the sum of consecutive odd numbers.

How many odd numbers are required to express 121 as a sum?

Find whether 50 can be expressed as the sum of consecutive odd numbers.

If 2025 is a perfect square, how many odd numbers will be required to express it?

CLASS VIII

SOCIAL SCIENCE

Q.1 Write and explain the Fundamental Rights of the Indian Constitution.

Q.2 Visit a historical place, read a historical book or watch a historical movie Write a passage on your experiences, observations related to culture, clothes, living style, occupation, Government structure and day to day life of people and role of women. (100-150 words)

Q.3 Imagine that you a historian wanting to find out about how agriculture changed in a remote tribal area after independence. List the different ways in which you would find information on this.

Q.4 Make a poster /colourful drawing of Conserving Resources on A-4 size sheet.

Q.5 Make a picture collage of Natural Resources Vs Human-made Resources on A-4 size sheet. (All items should be well labelled).

Q6. Make scrapbook/project/wall magazine on “Historical events of freedom movement of India from 1857 to 1947”

Q7. Make scrapbook/project/wall magazine on “Historical monuments of India”

Q8. Make a poste of ENVIRONMENT DAY on A-4 size sheet.

CLASS VIII

SANSKRIT

निर्देश:-सभी विद्यार्थी ग्रीष्मकालीन अवकाश कार्य संस्कृत कॉपी में करेंगे।

1.सरस्वती मातुः चित्रं कृत्वा सरस्वती श्लोकं लिखत।(माँ सरस्वती का चित्र बनाकर सरस्वती श्लोक लिखे।)

2. दशपक्षिणां नाम चित्रैः सह संस्कृतेन लिखत। (दस पक्षियों के नाम संस्कृत में चित्र सहित लिखिए।)

3.दश शाकस्य चित्रं कृत्वा तेषां नामानि संस्कृतेन लिखत।(10 सब्जियों का चित्र बनाकर संस्कृत में उनका नाम लिखो।)

4. 1 तः 100 पर्यन्तं सङ्ख्याः संस्कृतेन लिखित्वा कण्ठस्थं कुर्वन्तु। (1 से 100 तक गिनती संस्कृत में याद करो और लिखो ।)

5. "अस्मद्" , "युष्मद्" च ' शब्दरूपाणि लिखत।(अस्मद्" , "युष्मद्" च ' शब्दरूप लिखो।)

6. "खाद्" धातुः पञ्चलकारानां रूपं लिखित्वा कण्ठस्थं कुर्वन्तु।।(लट्, लृट्, लोट्,लङ्, च विधिलिङ्ग) (खाद् धातु लट् ,लोट् , लङ्, लृट् ,विधिलिङ्ग पांचो लकार लिखो और याद करो।)

7. विद्यायाः महत्त्वसम्बद्धाः कोऽपि श्लोकद्वयं लिखित्वा तेषां हिन्दी-अनुवादं लिखन्तु।(विद्या के महत्व संबंधित कोई दो श्लोक लिखकर उनका हिंदी अनुवाद लिखो।)

CLASS VIII

ART EDUCATION

Instructions:

- Do all work neatly in your art notebook.
- Use suitable colours (crayons, oil pastel, or watercolors).
- Maintain cleanliness and creativity.
- Submit after the vacation.

1. Nature Composition

Draw and colour a beautiful landscape of a place you visited during your vacation. (sun, trees, river, mountains, birds, etc.).

2. Poster Making with a slogan.

Topics (any 02):

“INTERNATIONAL YOGA DAY”

“CYBER SECURITY “

“SAVE EARTH, SAVE FUTURE”

Note:- Use bright colours.

3. Still Life Drawing (Pencil Shading only)

Draw and shade 02 pages of any **03 objects** placed in front of you (like fruits, bottle, cup, book, pen stand, etc.).

CLASS VIII

WORK EDUCATION

1. Make a File of information Four different Form animal. Fill up all information about health including height, weight (aprox), health condition (eye, teeth and mention how their body temperature measure by veterinary personal etc.)
2. Make a working project /model using simple machine and Tools.
3. Make a series and parallel connection.

CLASS VIII

ARTIFICIAL INTELLIGENCE

*NOTE – 1. Do all the work on A4 sheets.

2. If preparing presentation take screen shorts of it and paste on A4 sheet.

1. Write advantages and disadvantages of AI.
2. Explain AI Ethics (fairness, privacy, safety).
3. Case study: Face recognition system (5 points).

Prepare a chart/presentation on AI in daily life.

CLASS IX

ENGLISH

READING

Q.1 Read any two unseen passages and answer the questions in your English notebook. Also, frame two questions of your own for each passage.

WRITING

Q.2 Write a letter to the Editor of a local newspaper about any ONE issue:

- a) Increasing pollution in your area
- b) Poor condition of roads

(Word limit: 120–150 words)

Q.3 Write a paragraph on “My Summer Vacation” (100–120 words).

Q.4 Write a diary entry as the grandmother on the day she learned to read (100–120 words).

LITERATURE

Q.5 Describe the character of the grandmother highlighting her determination and courage.

Q.6 Explain the idea of “Unity in Diversity” with examples from the lesson -Bharat Our Land.

Q.7 Select one poem from your syllabus and highlight the presence of listed literary devices. Explain the literary devices with suitable examples. Given below is a list of literary devices that you can look for in your poem.

- Simile
- Metaphor
- Alliteration
- Repetition

GRAMMAR (TENSES)

Q. 8. Fill in the blanks with correct tense:

- a) She _____ (go) to school every day.
- b) They _____ (play) when it started raining.
- c) I _____ (finish) my homework already.
- d) We _____ (visit) Delhi next week.

9. Change the tense:

- a) She writes a letter. (Past)
- b) They completed the work. (Future)

10. Error Correction: (Rewrite the given sentences correctly)

- a) He go to school daily.
- b) I am knowing the answer.
- c) She did not wrote the letter.

Activity: PPT Presentation – *Bharat – Our Land*

Q. Prepare a PowerPoint Presentation on the poem “Bharat – Our Land” by Subramania Bharati highlighting the theme “Unity in Diversity.”

Task:

- Create a PPT of **6–8 slides**.
- Include:
 - About the poet
 - Theme of the poem
 - Key ideas
 - Examples from India
 - Message of the poem

- Add **relevant pictures/images**.
- Include **2–3 slogans or quotes**.
- End with a **conclusion slide**.

CLASS IX

HINDI

प्रश्न 1 उपसर्ग और प्रत्यय की परिभाषा बताते हुए उनमें अन्तर उदाहरण सहित समझाइए।

प्रश्न 2 संज्ञा, सर्वनाम, विशेषण और क्रिया की परिभाषा बताते हुए उसके भेद उदाहरण सहित समझाइए।

प्रश्न 3 वाक्य की परिभाषा बताते हुए अर्थ के आधार पर उसके भेद व दो-दो उदाहरण लिखकर समझाइए।

प्रश्न 4 अलंकार की परिभाषा बताते हुए अनुप्रास, यमक और श्लेष अलंकार के बारे में बताते हुए दो-दो उदाहरण लिखकर समझाइए।

प्रश्न 5 अपने मित्र को निबंध प्रतियोगिता में प्रथम आने पर बधाई देते हुए एक पत्र लिखिए।

प्रश्न 6 विद्यालय के प्राचार्य को खेल सामग्री उपलब्ध कराने हेतु एक प्रार्थना पत्र लिखिए।

प्रश्न 7 बस यात्रा के दौरान दो मित्रों (राम व श्याम) के बीच की गई बातचीत को 80 शब्दों में एक संवाद लिखिए।

प्रश्न 8 **साइबर सुरक्षा : जागरूकता ही समाधान** विषय पर लगभग 120-120 शब्दों में अनुच्छेद लिखिए :

प्रश्न 9 अपने फोर्टफोलियो का निर्माण करें ।

प्रश्न 10 अपनी पसंद के किसी भी विषय पर प्रोजेक्ट फाइल बनाए।

CLASS IX

MATHEMATICS

Chapter -1 (Orienting Yourself: The Use of Coordinates)- WORKSHEET

SECTION - A

Questions 1 to 10 carry 1 mark each.

1. The point (5, -7) lies in:

- (a) First quadrant (b) Second quadrant (c) Third quadrant

2. Which point lies on the x-axis?

- (0,6) (b) (5,0) (c) (-3,4) (d) (2,7)

3. Which point is equidistant from the x-axis and y-axis?

- (3,3) (b) (4,5) (c) (-2,3) (d) (5,0)

4. If a point is 4 units away from the origin along the x-axis, it can be:

- (a) (4,0) or (-4,0) (b) (0,4) or (0,4)
(c) (3,3) or (-3,-3) (d) (2,2) or (-2,-2)

5. Which point lies in the second quadrant?

- (d) Fourth quadrant

- (a) (6,3) (b) (4,5) (c) (-5,-6) (d) (3,-7)

6. The distance between points (-2,-3) and (-2,4) is :

- (a) 5 (b) 6 (c) 7 (d) 8

7. Which of the following points is the midpoint of $(-3,5)$ and $(1,1)$?

- (a) $(-1,3)$ (b) $(-2,2)$ (c) $(1,3)$ (d) $(0,2)$

8. Which point lies in the third quadrant?

- (a) $(4,6)$ (b) $(-3,5)$ (c) $(-4,-7)$ (d) $(6,-2)$

In the following questions 9 and 10, a statement of assertion followed by a statement of Reason (R). Choose the correct answer out of the following choices.

- (a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true but R is not the correct explanation of A.

A is true but R is false.

A is false but R is true.

9. Assertion: Distance between $(1, 4)$ and $(1,10)$ is 6.

Reason: If two points have the same x-coordinate, distance equals the difference of y-coordinates.

10. Assertion: Midpoint of $(2,8)$ and $(6,4)$ is $(4,6)$.

Reason: Midpoint formula

SECTION - B

Questions 11 to 14 carry 2 marks each.

11. The coordinates of two towns are $A(3,5)$ and $B(-1,9)$. A courier wants to go from A to B in a straight path. Find the distance between the two towns.

12. A park has two entrances at $P(2,1)$ and $Q(8,5)$. A security guard walks along the straight path joining the entrances. Find the distance he walks.

13. Find the point on the x-axis which is equidistant from $(2, -5)$ and $(-2,9)$.

14. Find the value(s) of y such that distance between $P(2, -3)$ and $Q(10,Y)$ is 10 units.

SECTION - C

Questions 15 to 17 carry 3 marks each.

15. Check whether the points $A(2,3), B(6,7), C(10,11)$ are collinear

16. Show that the triangle with vertices $A(1,2), B(5,2), C(5,5)$ is right-angled.

17. Find the midpoint of $A(-2,4)$ and $B(6,10)$ and verify that the midpoint divides the line segment equally.

SECTION - D

Questions 18 carry 5 marks each.

18. Show that the points $A(1,1), B(5,1), C(5,5), D(1,5)$ the vertices of a square.

SECTION – E (Case study based questions)

Questions 19 to 20 carry 4 marks each.

19. Case Study 1 - Village Well Planning

A village is planning to dig a new well at a central location so that all surrounding houses are equidistant from it. The houses are located at points B(6,3), and C(4,7) on a coordinate grid representing the village map. The village council wants to check whether these three houses lie in a straight line so that the well can be placed equidistantly. If they are not collinear, the council wants to find the midpoint of the line segment joining the two farthest houses to locate the well.



Answer the following questions:

Check whether the points A, B, C are collinear. (2)

Identify the two farthest houses. (1)

Find the midpoint of the line joining the two farthest houses. (1)

OR

(c) Calculate the distance between the two farthest houses and give coordinates of the well. (1)

20. Case Study 2 - Right-Angled Playground

A school is designing a rectangular playground. The corners of the playground are marked at P (1,2), Q (1,7), and R(6,2) on the school's coordinate map. The principal wants to ensure that the playground is right-angled so that sports can be played efficiently. He asks the math teacher to verify whether triangle PQR forms a right-angled triangle and to calculate the midpoint of the hypotenuse to mark the center of the playground for placing a water fountain



Answer the following questions:

(a) Check whether the points A, B, C are collinear. (2)

(b) Identify the two farthest

houses. (1)

(c) Find the midpoint of the line joining the two farthest houses. (1)

CLASS IX

SCIENCE

Make a Portfolio of subject Science in A4 size paper

Structure of the Portfolio

1. Cover Page

7. Title: *Science Portfolio*
8. Your Name, Class, Roll No.
9. Session (e.g., 2025–26)
10. A relevant picture or drawing (like an atom, Earth, or a microscope)

2. Index

A table of contents for easy navigation.

3. Introduction Page

A short paragraph about your interest in science and what the portfolio contains.

4. Chapter-Wise Sections

For chapter - 1 & 2 you choose, include:

- **Chapter Name**
- **Key Concepts/Definitions**
- **Diagrams or Charts(minimum 5)**
- **Activities/Experiments**
- **Real-life Applications**
- **Fun Facts or Discoveries**
- **Self-Reflection** (What you learned or found interesting)

5. Creative Corner

Include:

- Science jokes or riddles(minimum 3)
- Short poems on science topics(minimum 1)
- Science cartoons or drawings(minimum 3)

6. Conclusion

A short summary of what you learned and enjoyed while making the portfolio.

7. Acknowledgement

Thank your teacher, classmates, and anyone else who helped you.

8. Art integrated Project(for boys-Group A)

Project Title: *“making of animal cell using waste materials”*

Art Form: using cardboard or any hard piece

Idea:

- Making the cell organelles with cell wall & cell membrane using waste materials.

- Use colourful materials to make it attractive.

5. Art integrated Project (for girls-Group B)

Project Title: *“making of plant cell using waste materials”*

Idea:

- Making the cell organelles with cell wall & cell membrane using waste materials.
- Use colourful materials to make it attractive.



Tips for Making It Attractive

- Use colored pens or highlighters.
- Include drawings and labeled diagrams.
- Use neatly ruled sheets or scrapbook paper.
- Add stickers or borders related to science.

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 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.

CLASS IX

VISUAL ART

Instructions:

- Do all work neatly in your art notebook.
 - Use suitable colours (crayons, oil pastel, or watercolors).
 - Maintain cleanliness and creativity.
 - Submit after the vacation.
-

1. Nature Composition

Draw and colour a beautiful landscape of a place you visited during your vacation. (sun, trees, river, mountains, birds, clouds, skies etc.).

2. Poster Making with a slogan.

Topics (any 03):

"INTERNATIONAL YOGA DAY"

"CYBER SECURITY "

"SAVE EARTH, SAVE FUTURE"

"CHILD LABOUR"

Note:- Use bright colours.

3. Still Life Drawing (Pencil Shading only)

Draw and shade **03 pages** of any **04 objects** placed in front of you (like fruits, bottle, cup, book, pen stand, utensils, flower pots ,etc.).

CLASS IX

VOCATIONAL EDUCATION

1. Make a Series Testing Board.

2. Make a Table Lamp.

CLASS IX

ARTIFICIAL INTELLIGENCE

*NOTE – 1. Do all the work on A4 sheets.

11. Write steps of AI Project Cycle:
12. Problem Scoping, Data Collection, Data Exploration, Modelling, Evaluation.
13. Apply AI cycle to a real-life problem.
14. Draw a flowchart and prepare a short report.

CLASS IX

LIBRARY

Students are required to read about any one of the following personalities and write a detailed book review in their own words:

- Dr. B. R. Ambedkar
- Dr. A. P. J. Abdul Kalam
- Subhash Chandra Bose
- Rabindranath Tagore
- Bhagat Singh

Your review should include the following points:

- Title of the book and author's name
- Summary of the content
- Important events or achievements
- What you learned from it
- Your personal opinion

Please ensure that your work is neat, well-organized, and submitted on time.

CLASS X

HINDI

प्रश्न-1 वाक्य की परिभाषा बताते हुए रचना के आधार पर उसके भेद दो-दो उदाहरण लिखकर समझाइए।

प्रश्न-2 वाच्य की परिभाषा बताते हुए उसके भेद बताते हुए दो-दो उदाहरण लिखकर समझाइए।

प्रश्न-3 अलंकार की परिभाषा बताते हुए उपमा, रूपक, उत्प्रेक्षा, मानवीकरण और अतिशयोक्ति अलंकार के बारे में बताते हुए दो-दो उदाहरण लिखकर समझाइए।

प्रश्न-4 पद परिचय की परिभाषा बताते हुए कोई पांच उदाहरण बताते हुए उनका पद परिचय कीजिए।

प्रश्न-5 अपने मित्र को चित्रकला प्रतियोगिता में प्रथम आने पर बधाई देते हुए एक पत्र लिखिए।

प्रश्न-6 विद्यालय के प्राचार्य को खेल सामग्री उपलब्ध कराने हेतु एक प्रार्थना पत्र लिखिए।

प्रश्न 7 निम्नलिखित विषयों पर लगभग 120-120 शब्दों में अनुच्छेद लिखिए :

15. साइबर सुरक्षा

16. स्वस्थ जीवन-शैली

प्रश्न 8 अपने फोर्टफोलियो का निर्माण करें।

प्रश्न 9 अपनी पसंद के किसी भी विषय पर प्रोजेक्ट फाइल बनाए।

नोट-सभी विद्यार्थी ग्रीष्मकालीन छुट्टियों के गृहकार्य को हिन्दी नोटबुक में करेंगे।

प्रश्न 8 (पोर्टफोलियो) और प्रश्न 9 (प्रोजेक्ट) अलग से एक फाइल में करना है।

CLASS X

ENGLISH

SAMPLE PAPER/WORKSHEET

SUB- ENGLISH

Maximum Marks: 50

SECTION – A (READING PASSAGE)

1. Marie Curie was one of the most accomplished scientists in history. Together with her husband, Pierre, she discovered radium, an element widely used for treating cancer, and studied uranium and other radioactive substances. Pierre and Marie's amicable collaboration later helped to unlock the secrets of the atom

2. Marie was born in 1867 in Warsaw, Poland, where her father was a professor of physics. At an early age, she displayed a brilliant mind and a blithe personality. Her great exuberance for learning prompted her to continue with her studies after high school. She was disappointed, however, when she learned that the university in Warsaw was closed to women. Determined to receive a higher education, she defiantly left Poland and in 1891 entered the Sorbonne, a French university, where she earned her master's degree and doctorate in physics.

3. Marie was fortunate to have studied at the Sorbonne with some of the greatest scientists of her day, one of whom was Pierre Curie. Marie and Pierre were married in 1895 and spent many productive years working together in the physics laboratory. A short time after they discovered radium. Pierre was killed by a horse - drawn wagon in 1906. Marie was stunned by this horrible misfortune and endured heartbreaking anguish. Despondently, she recalled their close relationship and the joy that they had shared in scientific research. The fact that she had two young daughters to raise by herself greatly increased her distress.

4. Curie's feeling of desolation finally began to fade when she was asked to succeed her husband as a physics professor at the Sorbonne. She was the first woman to be given a professorship at a world - famous university. In 1911, she received the Nobel Prize in chemistry for isolating radium. Although Marie Curie eventually suffered a fatal illness from her long exposure to radium, she never became disillusioned about her work. Regardless of the consequences, she had dedicated herself to science and to revealing the mysteries of the physical world.

Choose the most appropriate option to answer the following questions based on your reading of the passage:

'Marie Curie was one of the most accomplished scientists in history.' Which of the following sentences implies the given statement correctly? 1

Marie Curie was the only accomplished scientists in history.

Marie Curie was more accomplished than other scientists in history.

Marie Curie was a very accomplished scientist, like some others, in history.

Marie Curie was not that accomplished a scientist in history.

What did Pierre and Marie's collaboration result into? 1

finding the secrets of atoms

discovering atoms

discovering metals

finding the cure for cancer

What came as a disappointment to Marie after she completed her high school? 1

Her parents did not allow further education for her.

The university in Warsaw was closed to women.

Her university was far away.

She was from a poor family.

'Marie was fortunate to have studied at the Sorbonne.' Why has this been said in the passage? 1

She worked with some of the greatest scientists.

She studied away from home.

She got married.

She became popular.

What helped Marie cope with her husband's untimely death? 1

She was offered money by the university.

She was offered the professorship in her husband's place.

She got busy with her daughters.

She stopped thinking about him.

vi) Complete the following sentences meaningfully: 4

Even as a child Marie was _____.

The word in paragraph 2 which means carefree and happy is _____.

Her prolonged exposure to radioactive substances resulted in _____.

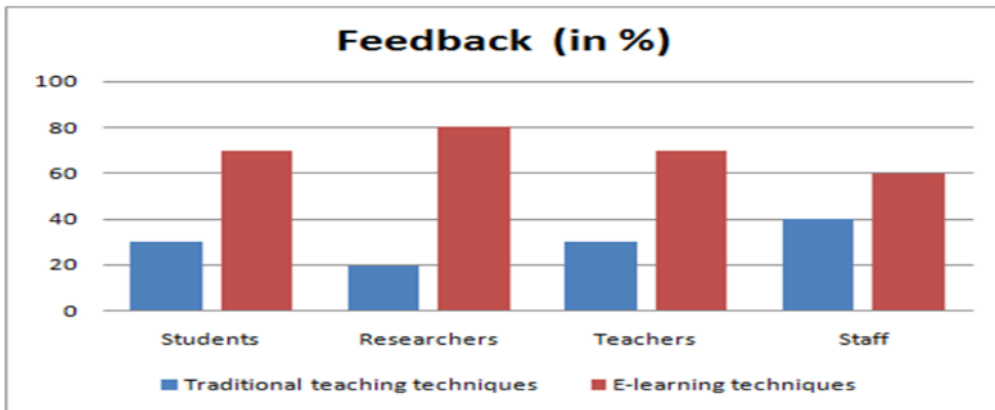
Marie Curie received the Nobel Prize for _____.

vii) State whether true or false: 1

Marie's marriage to Pierre resulted in a productive collaboration.

SECTION- B (WRITING AND GRAMMAR)

2. The bar graph given below shows the data of Traditional teaching techniques and E- learning techniques. Write an analytical paragraph in about 100-120 words, analysing the graph and statement, ' Need to Walk according to the signs of the world'' . 5



3. Complete the following task as directed: 10

(i) Fill in the blank by using the correct form of the word in the bracket, for the given portion of a letter.

Dear Sir,

This is with reference to committee's letter of recommendation that _____ (highlight) the nominations for 'Safe Residential Area' award for this current year.

(ii) Read the given sentence from a recipe review article. Identify the error and supply the correction in the sentence.

This delightful recipe must keep your hunger pangs at bay with its balanced spices and oriental flavour.

error	correction

(iii) Abhilash and Neha had a conversation about the inauguration of Neha's Dance Academy. Report Abhilash's question.

Is your best friend helping you in this venture?

(iv) Read the dialogue between Shabnam and her mentor, Sara, regarding her summer internship programme.

Sara: Why did you choose to participate in this internship programme?

Shabnam: Ah! I am convinced this programme has the potential to enhance my abilities.

Select the correct option to complete the reporting of the above dialogue.

Sara asked Shabnam _____ in that internship programme. Shabnam sighed and exclaimed that she was convinced that programme had the potential to enhance her abilities.

(a) why to choose to participate

(b) to choose participation

(c) why he had chosen to participate

(d) with her choice in participating

(v) Fill in the blank by choosing the correct option, to complete the concluding line of an issued circular by an organisation, to its managers.

A copy of the plan is enclosed and _____ (that/then/this) may be communicated to all Team Leaders for compliance.

(vi) Identify the error and supply correction for the given sentence from a commercial company's current marketing strategy.

The company aimed at increasing authority in areas frequently visited by the clients.

(vii) Select the option that identifies the error and supplies the correction for the closing line, from an analytical report.

In conclusion, this study explores the association among short-sleep pattern and overweight youngsters.

Options:

A: explores → explore

B: and → or

C: among → between

D: In → for

(viii) Complete the given narrative, by filling the blank with the correct option.

The experience of nursing an injured bird left me _____ grateful for knowing the importance of being kind and compassionate to all creatures.

(a) feeling

(b) having felt

(c) felt

(d) feels

(ix) Report the dialogue between a vendor and his customer, by completing the sentence.

Vendor: It is nice to see you, Sir!

Customer: Yes, indeed! Unlike last month, I have been away for quite some time this month.

The vendor greeted his customer respectfully and mentioned that he was pleased to see him.

The customer answered in the affirmative and explained that _____.

(x) Fill in the blank by choosing the correct option to complete the live feed on a school news channel.

Congratulations Change Makers!

The regional competition awards have been announced and our school music club _____ the first prize.

(a) had been won

(b) will win

(c) was winning

(d) has won

SECTION-C LITERATURE

4. Read the extract given and answer the following questions. 4x1= 4 marks

“That’s what they say: no one dies of hunger.” All through the night, Lencho thought only of his one hope: the help of God, whose eyes, as he had been instructed, see everything, even what is deep in one’s conscience. Lencho was an ox of a man, working like an animal in the fields, but still he knew how to write.

a. What was Lencho’s only hope?

b. Find the exact word of similar meaning ‘moral sense’ given in the passage.

c. Explain ‘an ox of a man’.

d. How does the line “no one dies of hunger” contrast with Lencho’s situation?

5. Read the extract given and answer the following questions. 4x1= 4 marks

Some say the world will end in fire,

Some say in ice.

From what I’ve tasted of desire

I hold with those who favour fire.

a. What do fire and ice represent in the poem?

(i) desire (ii) hatred (iii) heat and cold (iv) both (a) and (b)

b. What is the poet's opinion about the world?

c. What is the rhyming scheme of the above stanza?

d. Ice is also great for destruction. What can we infer here-?

i) ice and fire equally capable

ii) only ice is capable

iii) only fire is capable

iv) both are incapable

6. Answer any four of the following five questions, in about 40-50 words. $4 \times 3 = 12$ marks

How did Lencho's deep faith influence his actions after the storm destroyed his crops? Do you think his reaction was realistic? Give reasons.

Describe the different stages of freedom that Nelson Mandela experienced in his life. How did his understanding of freedom mature over time?

Why was Tricky's condition worsening day by day? How did Dr. Herriot's treatment help in his recovery?

What role do nature elements play in changing the poet's mood? Explain with reference to the poem.

What are the "twin obligations" mentioned by Nelson Mandela? Why are they important in a person's life?

7. Answer any one of the following two questions: 5 marks

In the zoo, the tiger ignores the visitors. What does this indifference signify about its state of mind? How does the poet use this behaviour to highlight the theme of captivity?

OR

Compare the ideas of faith and responsibility in A Letter to God and Long Walk to Freedom. How did Lencho's faith in God and Nelson Mandela's sense of duty towards his people shape their actions in difficult situations?

PORTFOLIO

NAME OF STUDENT : _____

CLASS: _____

SUBJECT: _____

PORTFOLIO

PHOTOGRAPH OF STUDENT

DETAIL OF STUDENT

NAME OF STUDENT: _____

DATE OF BIRTH: _____

AGE: _____

CLASS & SECTION: _____

ROLL NO.: _____

NAME OF SCHOOL: _____

ADMISSION NO.: _____

YEAR OF ADMISSION: _____

HEIGHT: _____ **WEIGHT:**

BLOOD GROUP: _____

AADHAR NO.: _____

FAMILY DETAIL

MOTHER'S NAME: _____

OCCUPATION: _____

CONTACT NO.:

_____ **FATHER'S**

NAME: _____

OCCUPATION:

_____ **CONTACT**

NO.: _____

RESIDENTIAL ADD.:

STUDENT'S OWN RESPONSES

1. THINGS YOU ARE INTERESTED IN:

ANS. _____.

2. WHICH IS YOUR FAVOURITE GAME?

ANS. _____.

3. WHAT IS YOUR STRENGTH?

ANS. _____.

4. WRITE NAME OF YOUR BEST FRIEND.

ANS. _____.

5. THE QUALITY YOU LIKE IN YOUR FRIEND.

ANS. _____.

6. WHAT IS YOUR AMBITION/AIM IN LIFE?

ANS. _____.

7. WHO IS YOUR ROLE MODEL?

ANS. _____.

8. WHICH IS YOUR FAVOURITE BOOK?

ANS. _____.

9. WRITE YOUR ACHIEVEMENT SO FAR.

ANS. _____.

10. WHICH PLACE YOU WANT TO VISIT DURING HOLIDAYS?

ANS. _____.

WRITE FIVE TOURIST PLACE OF INDIA AND STATES

PLACE STATE
1.
2.
3.
4.
5.

WRITE ONE INSPIRING THOUGHT

STUDENT'S SIGNATURE: _____

NAME: _____

DATE: _____

TEACHER'S SIGNATURE: _____

NAME: _____

DATE: _____

MATHEMATICS

1. A shopkeeper claims that for any two numbers, the HCF multiplied by the LCM is equal to the product of the numbers. Verify this claim using suitable examples.
2. Without performing long division, determine whether 6^n can end with the digit 0 for any natural number n . Justify your answer.
3. Prove that $\sqrt{7}$ is an irrational number using contradiction method.
4. Find the HCF of 306 and 657 .
5. If the HCF of two numbers is 12 and their product is 1800, find their LCM.
6. A polynomial $p(x) = 2x^2 - 11x + 6$. Verify whether $x = 3$ is a zero of the polynomial and explain the process.
7. Construct a polynomial whose zeroes are 2 and -3. Verify the relationship between zeroes and coefficients.
8. If one zero of the polynomial $ax^2 + bx + c$ is double the other, express the relationship between a , b , and c .
9. The graph of a polynomial intersects the x -axis at two points. What can you say about the number of zeroes? Explain with reasoning.
10. Given a graph, determine the number of zeroes of a polynomial and justify your answer based on x -intercepts.
11. Solve the system of equations: $2x + 3y = 11$ and $4x - y = 5$ using substitution method and interpret the solution.
12. A student solved a pair of linear equations and got inconsistent results. What does it imply about the lines? Explain geometrically.
13. Solve the pair of linear equations using graphical method: $3x - 2y = 5$ and $2x + y = 4$.
14. Find the value of k for which the system of equations has infinitely many solutions: $2x + ky = 4$ and $4x + 2ky = 8$.
15. A fraction becomes $\frac{1}{3}$ when 1 is subtracted from the numerator and becomes $\frac{1}{2}$ when 1 is added to the denominator. Form equations and find the fraction.
16. Two numbers differ by 3 and their sum is 27. Form a pair of linear equations and solve them.
17. Represent graphically the equations $x + y = 4$ and $x - y = 2$. Interpret the solution.
18. Write a real-life situation that can be modeled using a pair of linear equations and solve it.

SCIENCE

WORKSHEET- DO THIS IN YOUR CLASSWORK COPY

1. Name the type of nutrition exhibited by Amoeba. Explain how food is taken in and digested by this organism.
2. Sometimes while running, the athletes suffer from muscle cramps. Why? How is the respiration in this case different from aerobic respiration?
3. State the role of following in the human digestive system:
i) Digestive enzymes (ii) Hydrochloric acid (iii) Villi
4. Write three events that occur in photosynthesis.
5. Answer the following:
i) Write the mechanism by which fish breathe in water.
ii) Name the balloon-like structures present in the lungs and mention their function.
iii) Name the respiratory pigment and write its role in human beings.
6. Design an experiment to demonstrate that chlorophyll is essential for photosynthesis. Write the observation and conclusion of the experiment.
7. What is a chemical reaction? Describe an activity each to show that a chemical change has occurred in which (i) change of colour and (ii) change in temperature has taken place.
8. (i) Define a decomposition reaction. How can we say that (i) electrolysis of water, and (ii) blackening of silver bromide when exposed to sunlight, are decomposition reactions? Mention the type of energy involved in each case.
(ii) "The type of reactions in which (i) calcium oxide is formed, and (ii) calcium hydroxide is formed are opposite reactions to each other." Justify this statement with the help of chemical equations.
9. When lead nitrate is heated strongly in a boiling tube, two gases are liberated and a solid residue is left behind in the test tube.
(i) Name the type of chemical reaction and define it.
(ii) Write the name and formula of the coloured gas liberated.
(iii) Write the balanced chemical equation for the reaction.
(iv) Name the residue left in the test tube and state the method of testing its nature (acidic/basic).
10. (i) Write balanced chemical equation for the following word equation.
Lead nitrate + Potassium iodide \rightarrow Lead iodide + Potassium nitrate.
Is this a double displacement reaction? Justify your answer. Name the compound precipitated and write the ions present in it.
(ii) Write the method of preparation of $\text{Ca}(\text{OH})_2$. What happens when CO_2 is passed through it? Write balanced chemical equation for the reaction involved.

DO THE FOLLOWING IN A4 SIZE SHEET

II. COMPETENCY-BASED QUESTIONS – CHEMICAL REACTIONS AND EQUATIONS

1. Observation-Based Question

Q.1: A student adds a small amount of quick lime (CaO) to water taken in a beaker.

- a. What observation will the student record?
- b. Write the balanced chemical equation for the reaction.
- c. Name the type of chemical reaction.

2. Real-Life Application

Q.2: A silver spoon was left in the open for several days and became black.

- What is the reason for the black coating?
- Write the chemical equation for the reaction.
- Which type of reaction is this?

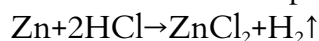
3. Experimental Situation

Q.3: When iron nails are placed in a copper sulphate solution, the blue color of the solution fades.

- What is the reason behind the color change?
- Write the balanced chemical equation.
- Name the type of chemical reaction involved.

4. Analytical Thinking

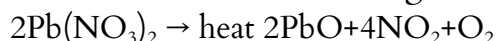
Q.4: A chemical reaction is represented as:



- What type of reaction is this?
- If the same experiment is performed with copper instead of zinc, what will happen? Why?
- Write the reactivity order of Cu, Zn, and H.

5. Concept Application

Q.5: A student observed the following reaction in the lab:



- Identify the type of reaction.
- What are the brown fumes observed in the reaction?
- State any one characteristic of this type of reaction.

6. Case-Based Question

Case: Reema mixed two colorless solutions — barium chloride and sodium sulfate — in a test tube. A white precipitate immediately formed.

- Write the balanced chemical equation.
- Identify the type of reaction.
- Mention any real-life use of such a reaction.

III. COMPETENCY-BASED QUESTIONS – LIFE PROCESSES

1. Case-Based Question (Digestion)

Case: Ravi ate a heavy meal containing carbohydrates, proteins, and fats.

- Describe the journey of this food through the human digestive system.
- Name the enzymes involved in the digestion of proteins and carbohydrates.
- Why is the small intestine the main site of nutrient absorption?

2. Application-Based (Respiration)

Q.2: During an intense workout, Raj started breathing heavily.

- Why did his breathing rate increase?

- b. What happens to the glucose in his muscles during heavy exercise?
 - c. Write the chemical equation for anaerobic respiration in muscle cells.
-

3. Observation-Based (Photosynthesis)

Q.3: A potted plant was kept in a dark room for 2 days. Then one of its leaves was covered with black paper, and the plant was kept in sunlight for 4 hours.

- a. What is the aim of this experiment?
 - b. What test is performed after this experiment?
 - c. What will be the observation and its conclusion?
-

4. Analysis-Based (Transportation in Plants)

Q.4: A student observed water droplets on the tips of grass leaves in the early morning.

- a. What is this phenomenon called?
 - b. Explain how water moves from roots to the tip of the plant.
 - c. What would happen to a plant if its xylem vessels were blocked?
-

5. Real-Life Situation (Circulation)

Q.5: A patient was diagnosed with a blockage in coronary arteries.

- a. What function do coronary arteries perform?
- b. How will the blockage affect the functioning of the heart?
- c. What lifestyle changes can help prevent such conditions?

IV. ART-INTEGRATED PROJECT- DO IT IN A4 SIZE SHEET

DO IT IN A4 SIZE SHEET

Environment and Natural Resources – Poster and Slogan Making (Biology)

Project Idea:

Design a **poster with slogan** on topics like:

- 17. “Save Forests, Save Life”
- 18. “Say No to Plastics”
- 19. “Conserve Water, Conserve Life”

V. Attach the solved sheets in the Portfolio. Format of Portfolio is given in the following link. Click on the link and do accordingly.

[Science Portfolio Template Class10.docx](#)

SOCIAL SCIENCE

- **Every student has to compulsorily undertake any one Project on the following topics:**

- Consumer Awareness
- Social Issues
- Sustainable Development

The content must cover the following:

Consumer Awareness

- Meaning of Consumer Awareness
- Forms of Consumer Exploitation / Malpractices
- Factors causing exploitation of the Consumers
- Enactment of COPRA 1986 and its benefits
- Role of WTO in protection of Consumers
- Rights and Duties of the Consumers
- Consumer Protection Measures
- Relevant case studies (any two)

Social Issues

Prepare a project on any three of the following social evils still prevailing in our society; highlighting the reasons, effects and suggest solutions to get them eliminated from our country-

- Poverty
- Illiteracy
- Corruption

- Gender Inequality
- Inflation, hoarding and panic buying during pandemic crisis
- Domestic violence against women and child abuse

The students must write about following key matter:

- Social issues in Indian Society
- Reforms initiated to combat the social issues

- (c) Role of Popular leaders and movement.2

- Make a project showing consumption and conservation of resources in NORTH & CENTRAL Part of India
- Make a flow chart on Classification of Resources and write few lines about each type (resources)
- Show the following in the Map of India (3 Map):
 - Different types of soils found in India
 - Major rice, tea, coffee, jute, wheat producing areas
 - Important centers of National Movement in India

- Make scrapbook/project/wall magazine on “Historical events of freedom movement of India from 1857 to 1947”
- Make scrapbook/project/wall magazine on “Historical monuments of India”

VOCATIONAL EDUCATION

1. Make a Switch board having electrical connection 3 numbers of 3 pin socket with 3 numbers of Switches.
2. Make a File having electrical circuit diagram of Series & Parallel connection, Series Testing Board, different types of Transformer (Diagram), Parts of Transformer (diagram), magnetic Lines of Force (diagram).

ARTIFICIAL INTELLIGENCE

*NOTE – 1. Do all the work on A4 sheets.

2. If preparing presentation take screen shorts of it and paste on A4 sheet.

Write applications of AI (Healthcare/Agriculture/Education).

Explain AI Bias and Ethics.

Case study on AI (Chatbots/Self-driving cars).

Prepare a PowerPoint on “Future of AI”.

LIBRARY

Students are required to read about any one of the following personalities and write a detailed book review in their own words:

- Dr. B. R. Ambedkar
- Dr. A. P. J. Abdul Kalam
- Subhash Chandra Bose
- Rabindranath Tagore
- Bhagat Singh

Your review should include the following points:

- Title of the book and author’s name
- Summary of the content
- Important events or achievements
- What you learned from it
- Your personal opinion

Please ensure that your work is neat, well-organized, and submitted on time.

CLASS XI (2026-27)

SUB: ENGLISH

1. Read the newspaper daily to enrich your vocabulary.
2. Read some story books/ novels / Hornbill text/ Snapshot to hone your creative skills.
3. Write the summary of the poem 'A Photograph' & complete all the intext NCERT Question Answers in your English copy.
4. Read the lesson 'A Portrait of a Lady ' & prepare a critical analysis on this chapter in your English copy .
5. Prepare a tense chart showing the conjugation of the verb 'eat' in all tense forms in your English notebook. Create separate columns for singular and plural forms of the 1st, 2nd, and 3rd persons, and fill in all the tense types for each person. Also, mention the formula or structure of each tense type.
6. Prepare a 4 minutes speech on any topic of your choice for the Speaking skill test.

CLASS XI (2026-27)

SUB: HINDI

कक्षा - 11(ग्यारहवीं) विषय -हिंदी

प्रश्न 1 - पठित पुस्तक आरोह-1 के सभी काव्य पाठों में 100 कठिन शब्दार्थ लिखिए।

प्रश्न 2 पठित पुस्तक वितान- 1 के पाठों का सार लिखिए।

प्रश्न 3 अपनी पसंद के किसी विषय पर रचनात्मक लेख लिखिए।

प्रश्न 4 अभिव्यक्ति और मध्यम पुस्तक के पाठों के महत्वपूर्ण बिंदुओं को लिखिए।

प्रश्न 5. अपनी पसंद के किसी स्वतंत्रता सेनानी कवि लेखक साहित्यकार समाजसेवी की परियोजना फाइल बनाए। जिसमें इन महान विभूतियों के फोटो, नाम, जन्म-मृत्यु तिथि, महत्वपूर्ण कार्य आदि का वर्णन हो। (A4 पेपर)

नोट-सभी विद्यार्थी ग्रीष्मकालीन छुट्टियों के गृहकार्य को हिन्दी नोटबुक में करेंगे

प्रश्न 5 (प्रोजेक्ट परियोजना फाइल) अलग से एक फाइल में करना है।

CLASS XI (2026-27)

SUB: CS & IP

Chapter: Computer System Overview

Section A – Concept Based

1. A keyboard is called an input device, but a touchscreen is both input and output. Why?
2. Is cache memory part of primary memory or secondary memory? Justify.
3. A computer without software is useless. Do you agree? Why?
4. Can a computer work without secondary memory? Explain logically.
5. Is CPU a hardware or software? Explain your answer.
6. Why is ROM called non-volatile but RAM volatile?
7. Is printer an input device? Explain your reasoning.
8. Data is raw but information is processed. Give a real-life example.

Section B – Case-Based Questions

Case Study 1

Riya is typing her project on a computer. Suddenly, the power goes off and her work is lost.

- a) Which type of memory was holding her work?
- b) Why was the data lost?
- c) Name a memory that could have saved it permanently.
- d) Suggest one practical solution to avoid this problem.

Case Study 2

A school computer lab has fast processors but still runs slowly when many students use it.

- a) Which component might be insufficient?
- b) Why does this affect performance?
- c) Suggest one hardware upgrade.
- d) Name one other factor that can slow down a system.

Case Study 3

A student installs antivirus software on a computer.

- a) Is antivirus hardware or software?
- b) What type of software is it?
- c) How does it help the computer system?
- d) Can a computer run safely without it? Explain.

Case Study 4

A user stores movies on a pen drive instead of RAM.

- a) Why is RAM not suitable for storage?
- b) What type of memory is a pen drive?
- c) Compare both in terms of volatility.
- d) Why is secondary memory essential?

Section C – Analytical Questions

11. Explain the IPO cycle with an example of withdrawing cash from an ATM.

12. Compare the following (any TWO differences each):

- a) Hardware vs Software
- b) RAM vs ROM
- c) Primary Memory vs Secondary Memory
- d) Input Device vs Output Device

13. A computer has:

- 1 TB hard disk
- 8 GB RAM
- 512 KB cache

Arrange them from fastest to slowest and justify your answer.

14. "CPU is the brain of the computer."

- a) Why is this statement used so often?
- b) Name its two main components.
- c) Explain their functions briefly.

CLASS XI (2026-27)

SUB: PHYSICS

1. Write two limitations of dimensional analysis.

2. If Length Time and Energy are fundamental units, find the Dimension of mass ?

3. State the number of significant figures in these numbers: -- 2.64×10^{24} , 0.056300, 3690, 5010.30

4. What does the slope of velocity- time graph represent?

5. Name two physical quantities which has unit but no dimension.

6. Write the dimensional formula for the following:

- a) **Luminous intensity**
- b) **Planck's constant**
- c) **Latent heat**
- d) **Gravitational constant**

7. Derive equations of motion by graphical method .

8. Textbook exercise questions of chapter 'Units and Measurement '.

CLASS XI (2026-27)

SUB: CHEMISTRY

1. To redefine the kilogram, scientists use extremely pure spheres of Silicon-28. If a silicon sphere has a mass of exactly 1000.0 g, calculate the total number of silicon atoms it contains. (Assume the atomic mass of Silicon-28 is 28.0 Da).
2. A standard aspirin tablet contains 500 mg of acetylsalicylic acid . Given its average molecular mass is 180.157 Da, calculate the amount of substance (in moles) provided in one tablet.
3. Using the relationship that 1 amu is approximately g, calculate the absolute mass in grams of a single atom of Carbon-12.
4. Which sample contains a greater total number of oxygen atoms: 1 mole of glucose (C₆H₁₂O₆) or 2 moles of carbon dioxide (CO₂) ? Show your calculation steps.
5. At Standard Temperature and Pressure (STP), a patient is administered 5.6 L of an ideal anesthetic gas. Calculate the number of moles of gas delivered.
6. A cylinder contains 11.2 L of hydrogen gas at STP. Calculate the total number of hydrogen atoms present in the cylinder.
7. A room contains 128 g of sulfur dioxide gas. Determine the volume this gas would occupy at STP. (Atomic masses: S = 32, O = 16).
8. Calculate the number of nitrogen molecules present in 12 L of nitrogen gas measured at Room Temperature and Pressure (r.t.p.), where the molar volume is 24 L/mol .
9. A garden fertilizer claims to have a phosphorus content of 30.0% " soluble in water." Calculate the actual percentage by mass of the element phosphorus (P) in the fertilizer.
10. A 15 g sample of sodium sulfate crystals is heated until all water is removed, leaving a residue of 7.95 g of anhydrous salt. Calculate the value of x.
11. A liquid cleaning agent is analyzed and found to contain 53.3% carbon, 11.1% hydrogen, and 35.6% oxygen by mass. Deduce its empirical formula.
12. An organic compound has the empirical formula C₃H₄O and a molar mass of 228 g/mol. Determine its molecular formula.
13. In the Haber process, how many grams of nitrogen gas are required to produce exactly 34 g of ammonia?

14. A student reacts 10 of 1 mol/ silver nitrate with excess potassium iodide to produce silver iodide. If the student actually collects 2 g of precipitate, calculate the percentage yield. (Molar mass of g/mol).

15. A laboratory technician needs to prepare 1.0 of 2.00 mol/ sulfuric acid from a concentrated stock solution of 8.00 mol/. Calculate the volume of the stock solution required.

CLASS XI (2026-27)

SUB: BIOLOGY

1. How are organisms named scientifically? Pick any five common organisms and write their common name, scientific name and meaning of scientific name.
2. A virus does not show metabolism outside a host cell. Is it living or non-living? Justify.
3. Why is metabolism considered a defining feature of life?
4. Why are scientific names preferred over common names?
5. Arrange the following in correct order:
Species, Kingdom, Family, Order, Genus

Multiple Choice Questions.

6. The basic unit of classification is:

- a) Genus
- b) Species
- c) Family
- d) Order

7. Which of the following has maximum similarity?

- a) Family
- b) Genus
- c) Species
- d) Order

8. Which category includes organisms with least similarities?

- a) Species
- b) Genus
- c) Kingdom
- d) Family

9. Growth in living organisms is different from non-living because:

- a) It occurs by accumulation of material on surface
- b) It is intrinsic and occurs from within
- c) It is absent in animals
- d) It is only due to cell division

10. Which of the following is not a property of living organisms?

- a) Cellular organization

- b) Metabolism
- c) Increase in mass
- d) Response to stimuli

11. Which is considered the most inclusive feature of living organisms?

- a) Reproduction
- b) Metabolism
- c) Growth
- d) Movement

12. The number of species known and described till date is approximately:

- a) 0.5 million
- b) 1.7–1.8 million
- c) 5 million
- d) 10 million

13. Biodiversity refers to:

- a) Number of plants in an area
- b) Variety of organisms on Earth
- c) Only animal species
- d) Genetic mutation

14. Which of the following is the defining property of living organisms?

- a) Growth
- b) Reproduction
- c) Metabolism
- d) Consciousness

15. Growth in living organisms is different from non-living because:

- a) It occurs by accumulation of material on surface
- b) It is intrinsic and occurs from within
- c) It is absent in animals
- d) It is only due to cell division

16. Systematics includes:

- a) Identification only
- b) Classification only
- c) Nomenclature only
- d) Identification, classification, nomenclature, and evolutionary relationships

17. Taxonomy deals with:

- a) Evolution only
- b) Classification only
- c) Identification, nomenclature, and classification
- d) Anatomy

18. Herbarium is:

- a) Place where animals are kept
- b) Collection of preserved plant specimens
- c) Botanical garden
- d) Museum

19. Botanical gardens are used for:

- a) Preserving animals

- b) Growing plants for study
- c) Storing fossils
- d) Genetic mutation

20. Which is a key for identification of organisms?

- a) Flora
- b) Manual
- c) Taxonomic key
- d) Catalogue

CLASS XI (2026-27)

SUB: ACCOUNTANCY

A Project on "Local Business Accounting Audit & Simulation".

Assignment: "The Business Chronicle: A 15-Day Real-Life Simulation"

This assignment is divided into three creative phases that align with the core Class XI syllabus.

Phase 1: Field Exploration & Data Collection

- The Task: Choose one small local business (e.g., a bakery, boutique, mobile shop, or grocery store).
- Observation: Visit the shop during "lean" (non-busy) hours to observe how they handle transactions.
- Collection: Collect blank samples of Source Documents used by the business, such as:
 - Cash memos or invoices.
 - Pay-in slips or withdrawal slips from a nearby bank.
 - Debit and Credit Notes.

Phase 2: The Accounting Cycle Simulation

The Task: Create a fictional 15-day journey for this business, starting with initial capital and recording at least 15 transactions including expenses, credit/cash sales, and withdrawals.

The Workflow:

1. Journalizing: Pass journal entries for each transaction (incorporating simple GST where applicable).
2. Ledger Posting: Post these to respective Ledger accounts.
3. Trial Balance: Prepare a Trial Balance to ensure accuracy.
4. Financial Statements: Draft a basic Trading and Profit & Loss Account and a Balance Sheet.

Phase 3: Visual Analytics (Art Integration)

- The Task: Represent the financial health of the fictional business using creative visuals:
 - Create Pie Charts or Bar Graphs to show the distribution of total expenses (e.g., Rent vs. Salary vs. Electricity).

- Develop a Digital Awareness Poster or a short video script on preventing "Cyber Frauds" in digital UPI payments, linking modern technology to traditional accounting security.

Submission Requirements

- Format: A neatly organized Spiral Binding File with a minimum 25 to 30 pages.
- Inclusions: The project should include an Acknowledgement page, Index, Introduction to the chosen business, the handwritten Accounting Cycle, and the Visual Analytics section

Note: Prepare project Work as per CBSE syllabus 2026-27.

**Please follow the guidelines of CBSE project work for Accountancy.

CLASS XI (2026-27)

SUB: BST

A Project Report on "The Local Entrepreneurship & Aids-to-Trade"

Assignment: "Business Explorer: From Local Roots to Global Aids"

This assignment consists of three practical modules designed to develop observation and analytical skills.

Module 1: Field Investigation (The "Business Hunt")

- The Task: Visit a local small-scale business (e.g., a handicraft unit, a departmental store, or a local industry) during non-rush hours.
- Observation Checklist: Identify the following based on Chapter 1 and 2:
 - Form of Organization: Is it a Sole Proprietorship, Partnership, or a small Company?
 - Economic Objective: Identify one economic and one social objective the owner is fulfilling (e.g., profit making vs. community employment).
 - Business Risks: Interview the owner about one major "Physical" risk and one "Economic" risk they face.

Module 2: "Aids to Trade" Mapping

- The Task: Choose one specific product sold by that business (e.g., a branded shoe or a locally made craft).
- Analysis: Create a flowchart showing how "Aids to Trade" help this product reach the customer:
 - Transport: How is the product moved from the manufacturer?
 - Banking: What digital payment methods (UPI/Net Banking) does the shop use to overcome "hindrance of finance"?
 - Insurance: Does the business have fire or theft insurance? Why is it vital?
 - Advertising: How do they inform locals about their product?

Module 3: Creative "E-Business" Pitch

- The Task: If this local business had to go digital (E-business), what would be their biggest challenge and benefit?
- Deliverable: Design a 1-page Instagram/Facebook ad campaign for the shop to help them transition to an "Emerging Mode of Business".

Submission Requirements

- Format: A neatly organized Spiral Binding File with a minimum 25 to 30 pages.
- Inclusions: The project should include an Acknowledgement page, Index, Introduction to the chosen business, the handwritten Accounting Cycle, and the Visual Analytics section

Note: Prepare project Work as per CBSE syllabus 2026-27.

CLASS XI (2026-27)

SUB: ECONOMICS

1. What are the three central problems of Economy?
2. Give two examples of Micro and Macro Economy.
3. Define Scarcity.
4. Is the subject of the Jute industry studied in a macro economy?
5. Which of the following is a statement of normative nature in economics
 - (a) Economics is a study of choices /alternatives
 - (b)The government should be concerned with how to reduce unemployment
 - (c) According to the estimate, in spite of severe shortage, more than 10% of houses in Indian cities are vacant
 - (d) Accommodation of refugees is posing a big problem for Europe
6. What is the opportunity cost?
7. What does the problem for whom to produce refer to?
8. What does the opportunity cost mean? Explain with a numerical example.
9. Explain the central problem of the choices of products to be produced.
10. Why does an economic problem arise?
11. Explain the problem "how to produce"?
13. Explain the problem "what to produce "?

CLASS XI (2026-27)

SUB: LIBRARY

Students are required to read about any one of the following personalities and write a detailed book review in their own words:

1. Dr. B. R. Ambedkar
2. Dr. A. P. J. Abdul Kalam
3. Subhash Chandra Bose
4. Rabindranath Tagore
5. Bhagat Singh

Your review should include the following points:

- Title of the book and author's name
- Summary of the content
- Important events or achievements
- What you learned from it
- Your personal opinion

Please ensure that your work is neat, well-organized, and submitted on time.

CLASS XI (2026-27)

SUB: WE

- Construction diagram of Electrical Motor, Transformer, block diagram of generation of electricity by Thermal power plant and Hydroelectric Power Plant
- 1. Make a Switch Board having 3 numbers of 3 pin socket, 3 numbers of Switches, Fuse and Indicator.

PM SHRI KENDRIYA VIDYALAYA AFS KUMBHIRGRAM

SUMMER VACATION HOLIDAY HOMEWORK

CLASS XII (2026-27)

SUB: ENGLISH

- 1) COMPLETE THE FOLLOWING PROJECT ASSIGNMENT GROUP WISE DURING SUMMER VACATION PERIOD.

TOPIC :1 Gender issues (Theme taken from Aunt Jennifer's Tigers & My Mother at 66)

Hints & Clues:- highlight the plight of oppressed Gender– inequality, injustice, deprivation, agony, pain faced by them (Infographics / Data).

-Women ideology towards gender inequality.

-Movements against Gender inequality.

-Discrimination at different places (home, job, school etc).

-Kamala Das – and Indian writer throughout her literature career has fought for the rights of women – (Aunt Jennifer's Tigers) –mention the themes.

-Kamala Das: The Voice of Indian Woman's Quest For Liberation (It is an autobiographical verse) Highlight.

-# Me too movement.

-How can the change be brought in the mind set of the people.

Group 2 project topic class 12A & 12B

TOPIC -2: Courage is not the absence of fear but triumph over it (Theme taken from Deep Water)

Hints & Clues:-

-Origin of the quote

-Courage – a choice to act

-What can one learn from fear

-Benefits of having courage over fear

-How and why to overcome fear

-Fighting against fear is hard but worth it (Examples) with reference to the lesson *Deep Water*

-Mention some of your worst fears and how you managed to overcome them — A Questionnaire

-Famous personalities who overcame their fear (Their motivation podcast/speech/stories

Group 3 project topic class 12 A & 12B

TOPIC-3: “When a people are enslaved, as long as they hold fast to their language it is as if they had the key to their prison.” (Theme taken from The Last Lesson)

Hints & Clues:- Importance of Language

Meaning of ‘Linguistic chauvinism’

Find examples in history where conquered people had their language taken away from them or had a language imposed of them—What was the result/outcome

Problems faced by linguistic minority

How can they keep their language alive

Linguistic human rights

Linguistic Chauvinism examples from English literature with reference to *The Last Lesson*

Group 4 project topic for Class 12A & 12B

TOPIC-4 :- “Hero Worshipping/ (Theme taken from the Chapter Going Places) Fantasizing/Ego ideal. Are teenagers justified in their act of hero-worship?”

Hints & Clues:-

Adolescence a period of change/ transitional period/period of unrealism/ time of search for identity

What is hero worshipping for adolescent?

Is hero worshipping/fantasising good or bad?

Meaning of adolescent fantasising

Hero worship is related with which stage of development

Are teenagers justified with their hero worship?

Purpose of ego ideal

What attracts the child to hero worship

Hero worshipping in India is too big. why?

What are some potential dangers of hero worship?

With reference to the lesson *Going Places*

Group 5 Project -topic for Class 12 A & 12B

TOPIC 5- Life in Slums (Theme taken from Lost Spring)

Hints & Clues:-Find the harsh realities of life faced by them

Do they understand the value of #education

Find the pathetic condition of the slum children

Talk of the theme of social injustice and class inequalities prevailing in the society, effect of social disorder, confusion, chaos and poverty with reference to the lesson *'Lost Spring'*

What can be genuinely done for them

Some questions-

How do you feel living in slum?

For how long have you been here

What's the area of the house and how many people live?

What is the source of Income?

Are your children going to school?

What basic facilities do you get?

Why have you migrated to city?

Do you want to go back to your own village?

Group 6 Project – topic for Class 12 A & 12B

TOPIC- 6 :-The need to develop the right attitude towards the specially challenged, the need to incorporate them into the social mainstream and also realize the true beauty that lies within a person and not in one's physical appearance. "Appearances are deceptive"

Hints & Clues:-

You can watch the documentary- Forgive us Our Trespasses (Attitude towards disable people) for developing ideas.

Mention dehumanising way , the disabled are treated/ rather ignored in the past even today

Extracts /real life stories

Suggest some radical changes

Importance of Inner beauty over outer beauty

Relate it with chapter *'On the face of it'*

CLASS XII (2026-27)

SUB: HINDI

प्रश्न 1 - पठित पुस्तक आरोह-2 के सभी पाठों का सार लिखिए।

प्रश्न 2 पठित पुस्तक वितान-2 के पाठों का सार लिखिए।

प्रश्न 3 अपनी पसंद के किसी विषय पर रचनात्मक लेख लिखिए।

प्रश्न 4 अभिव्यक्ति और मध्यम पुस्तक के पाठों के महत्वपूर्ण बिंदुओं को लिखिए।

प्रश्न 5. अपनी पसंद के किसी स्वतंत्रता सेनानी कवि लेखक साहित्यकार समाजसेवी की परियोजना फाइल बनाए। जिसमें इन महान विभूतियों के फोटो, नाम, जन्म-मृत्यु तिथि, महत्वपूर्ण कार्य आदि का वर्णन हो। (A4 पेपर)

नोट-सभी विद्यार्थी ग्रीष्मकालीन छुट्टियों के गृहकार्य को हिन्दी नोटबुक में करेंगे

प्रश्न 5 (प्रोजेक्ट परियोजना फाइल) अलग से एक फाइल में करना है।

CLASS XII (2026-27)

SUB: CS

SECTION A – CASE STUDY 1

A startup is building a **Student Feedback System**.

```
names = ["Riya", "Arjun", "Kabir", "Riya"]
```

```
feedback = "good service but slow response"
```

```
count = 0
```

Q1. Write a function `count_name(L, name)` to count how many times a given name appears in the list.

Q2. Write a function to convert the feedback string into uppercase and return the result.

Q3. Write a function `extract_word(text, word)` to check whether a given word exists in the string without using `in` operator.

Q4. Using the global variable `count`, write a function to count vowels in the feedback string and update the global variable.

SECTION B – CASE STUDY 2

A shopping app manages products using lists, tuples, and dictionaries.

```
products = ["Shoes", "Shirt", "Watch"]
```

```
prices = (2000, 1500, 3000)
```

```
cart = {"Shoes": 1, "Watch": 2}
```

```
total = 0
```

Q5. Write a function `get_price(product_name)` that returns the price of a given product using indexing.

Q6. Write a function to add a new product to the products list and return the updated list.

Q7. Write a function to check whether a given product exists in the tuple prices.

Q8. Using the global variable `total`, write a function to calculate total items in the cart dictionary.

SECTION C – CASE STUDY 3

A school stores student data using dictionaries.

```
student = {
```

```
    "name": "Ananya",
```

```
    "marks": [78, 85, 90],
```

```
    "details": ("Class XII", "Science")
```

```
}
```

result = ""

Q9. Write a function to return the second mark of the student.

Q10. Write a function to calculate total marks from the list inside the dictionary.

Q11. Write a function to check whether the student belongs to "Commerce" stream.

Q12. Using the global variable result, write a function to assign "Pass" or "Fail" based on average marks (≥ 50) and update the dictionary.

CLASS XII (2026-27)

SUB: CHEMISTRY

I. CHAPTER: SOLUTIONS

Q1. An azeotropic mixture of two liquids has a boiling point higher than that of either of the two liquids when it

(A) obeys Raoult's law.

(B) shows positive deviation from Raoult's law.

(C) shows negative deviation from Raoult's law.

(D) obeys Henry's law.

Q2. Solubility of gases in liquid decreases with increase in

(A) pressure

(B) volume

(C) number of solute particles

(D) temperature

Q3. (a) Calculate the boiling point of solution when 6 g of MgSO_4 (Molar mass = 120 g mol^{-1}) was dissolved in 200 g of water, assuming the complete dissociation of MgSO_4 . (K_b for water = $0.52 \text{ K kg mol}^{-1}$).

(b) State Raoult's law for a solution containing volatile components. How Raoult's law is a special case of Henry's law?

Q4. In case of association, abnormal molar mass of solute will

(A) increase

(B) decrease

(C) remain same

(D) first increase and then decrease

Q5. Arrange the following compounds in increasing order of their boiling points :

(i) Isopropyl bromide

(ii) n-butyl bromide

(iii) tert-butyl bromide

(A) (iii) < (i) < (ii)

(B) (i) < (ii) < (iii)

(C) (iii) < (i) < (ii)

(D) (iii) < (ii) < (i)

(c) The conversion of molecule X to Y follows second order kinetics. If concentration of X is increased 3 times, how will it affect the rate of formation of Y?

Q18. Which among the following is a false statement?

- (A) Rate of zero order reaction is independent of initial concentration of reactant. (B) Half-life of a zero order reaction is inversely proportional to the rate constant.
- (C) Molecularity of a reaction may be zero. (D) For a first order reaction, $t_{1/2} = 0.693/k$.

Q19. The number of molecules that react with each other in an elementary reaction is a measure of the :

- (A) activation energy (B) stoichiometry
- (C) molecularity (D) order

Q21. Define the following terms :

- (a) Pseudo first order reaction
(b) Half-life period of reaction ($t_{1/2}$)

Q22. A reaction is of second order with respect to a reactant. How is the rate of reaction affected if the concentration of the reactant is (i) doubled (ii) reduced to half?

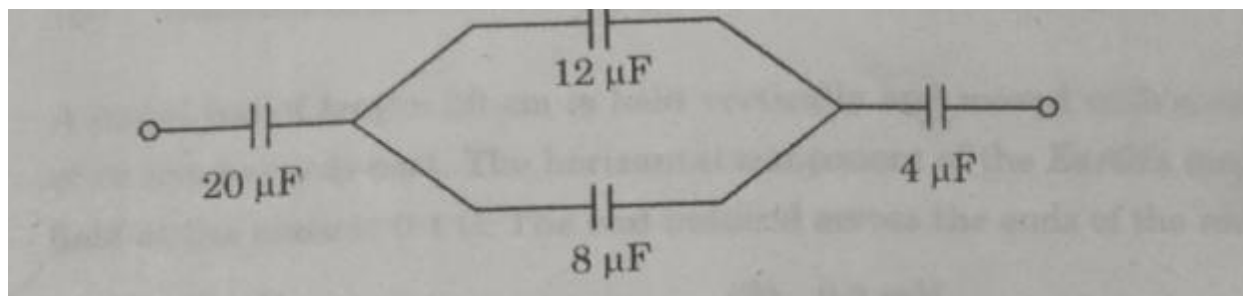
Q23. (a) The rate constant for a zero order reaction $A \rightarrow P$ is $0.0030 \text{ mol L}^{-1}\text{s}^{-1}$. How long will it take for the initial concentration of A to fall from 0.10 M to 0.075 M?

(b) The decomposition of NH_3 on platinum surface is zero order reaction. What are the rates of production of N_2 and H_2 if $k = 2.5 \times 10^{-4} \text{ mol L}^{-1} \text{ s}^{-1}$?

CLASS XII (2026-27)

SUB: PHYSICS

In the circuit shown, the charge on the left plate of $20 \mu\text{F}$ capacitor is $-50 \mu\text{C}$. What is the charge on the right plate of the $12 \mu\text{F}$?



2. You are provided with a large number of $1 \mu\text{F}$ identical capacitors and a power supply of 1200 V . The dielectric medium used in each capacitor can withstand up to 200 V only. Find the minimum number of capacitors and their arrangement, required to build a capacitor system of equivalent capacitance of $2 \mu\text{F}$ for use with this supply.

3. Establish the relation between electric field and electric potential at a point. Draw the equipotential surface for an electric field pointing in $+z$ axis with its magnitude increasing at constant rate along $+z$ axis.

4. A small hollow conducting sphere of radius r_1 is given a charge Q . It is surrounded by a concentric conducting spherical shell of inner radius r_2 , and outer radius r_3 , having charge $-3q$. If a point charge $2q$ were kept at the centre, find :

(I) the electric flux through a concentric spherical Gaussian surface of radius x for (1) $x < r_1$, and (2) $r_1 < x < r_2$ (II) electric field at a point distant x from the centre for (1) $x > r_3$ and (2) $r_1 < x < r_3$ (III) surface charge density on the inner surface of (1) sphere, and (2) shell.

5. Two identical electric dipoles are placed along the diagonals of a square ABCD of side $\sqrt{2}$ m. Obtain the magnitude and direction of the net electric field at the centre of the square.

6. Gauss's law is based on inverse-square dependence on distance contained in the Coulomb's law. Explain.

7. Two charges $5\mu\text{C}$ and $-2\mu\text{C}$ are placed at points $(5\text{cm}, 0, 0)$ and $(23\text{cm}, 0, 0)$ in a region of space where there is no other external field. Calculate the electrostatic potential energy of this charge system.

8. A slab of material of dielectric constant K has the same area as that of the plates of a parallel plate capacitor but has the thickness $d/2$, where d is the separation between the plates. Find out the expression for its capacitance when the slab is inserted between the plates of the capacitor.

9. Consider two hollow concentric spheres S_1 and S_2 , enclosing charges $2Q$ and $4Q$ respectively.

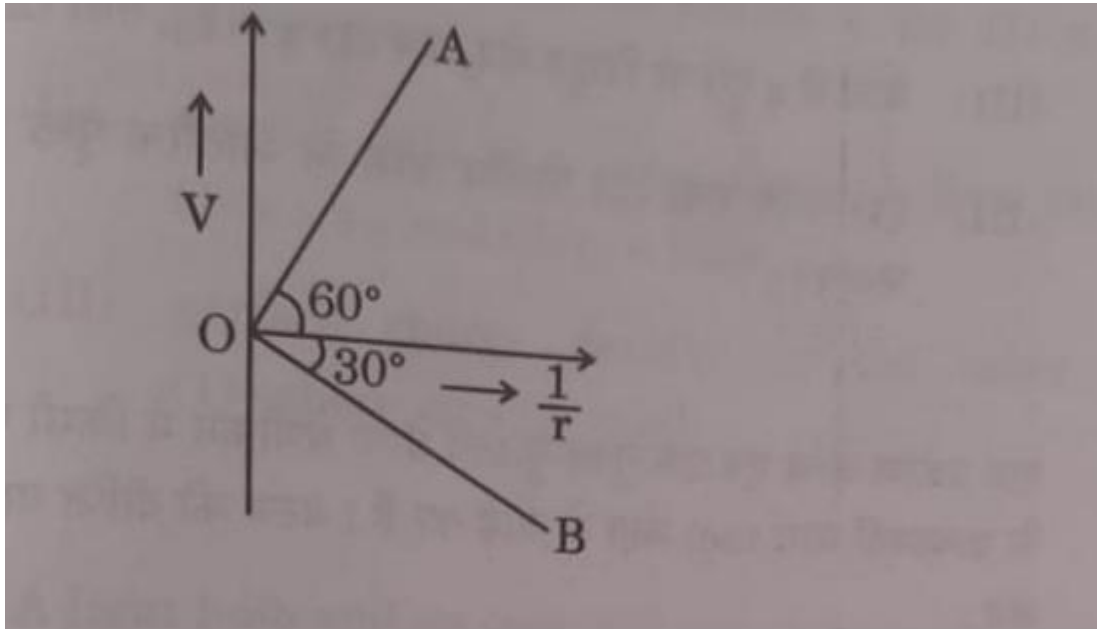
i) Find out the ratio of the electric flux through them.

ii) How will the electric flux through the spheres S_1 change if a medium of dielectric constant ϵ_r is introduced in the space inside S_1 in place of air? Deduce the necessary expression.

10. A point charge situated at a distance r from a short electric dipole on its axis, experiences a force F . If the distance of the charge is $2r$, what is the force on the charge?

11. Three charges $+q$, $+2q$ and $-4q$ are placed on the vertices of an equilateral triangle. If $q = 1.0 \times 10^{-7}$ C and each side of triangle is 0.1 m, find electrostatic potential energy of the system.

12. In the figure, OA and OB show the variation of electric potential V at a point due to two point charges Q_1 , and Q_2 with $1/r$ respectively. Here r represents the distance of the point from the two point charges,



(i) Identify the nature of the two charges Q_1 , and Q_2 ?

(ii) What is the value of Q_1/Q_2 . Justify your answer.

13. Textbook exercise questions of chapter 'electric potential and capacitance'.

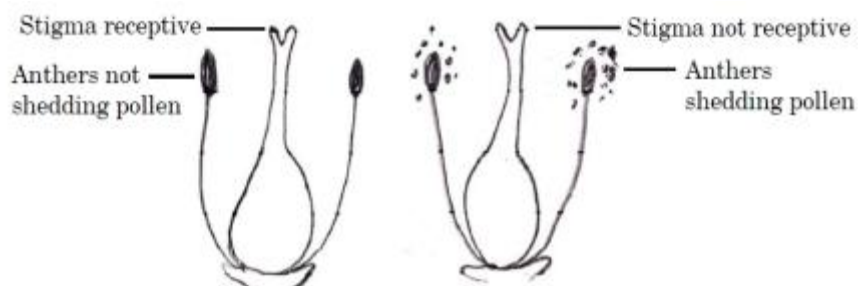
CLASS XII (2026-27)

SUB: BIOLOGY

Very Short / Short Questions (2-3 marks)

1. Differentiate between asexual and sexual reproduction. (CBSE 2021)
2. Why is sexual reproduction considered superior to asexual reproduction? (CBSE 2022)
3. Give one example each of binary fission and budding. (CBSE 2023)
4. Explain double fertilization in angiosperms. (CBSE 2021)
5. Draw a labelled diagram of a mature ovule. (CBSE 2022)
6. Mention adaptations in flowers for wind pollination. (CBSE 2023)
7. Describe the structure of human sperm. (CBSE 2021)
8. Explain menstrual cycle with diagram. (CBSE 2022)
9. State the role of placenta during pregnancy. (CBSE 2023)
10. Name two sexually transmitted diseases with symptoms. (CBSE 2021)
11. What is amniocentesis? Why is it banned in India? (CBSE 2022)
12. Mention two advantages of contraceptives. (CBSE 2023)
13. Explain what is meant by the term MTP. What was the main reason to legalize MTP by the Government of India? (CBSE 2025)
14. Name any two VDs which might occur in a human female. State any two complications in a female if it is left untreated. (CBSE 2025)
15. Explain the neuroendocrine mechanism involved in the process of parturition in a human female leading to the expulsion of the baby out of the uterus through the birth canal. (CBSE 2025)

16. Many of the flowering plants producing hermaphrodite flowers have developed many devices to discourage self-pollination and to encourage cross-pollination. Given below is a picture of one such outbreeding device in a flowering plant. Study the picture and answer the questions that follow:



Flowers present on different plants of same species

- Explain how the given type of pollination is advantageous to the plant.
 - Can this flowering plant show geitonogamy? Justify your answer. (CBSE 2025)
17. (i) Explain why the milk produced by the mother during the initial days of lactation is considered to be very essential for the newborn infant.
(ii) What is the term used for the milk produced during the initial days of lactation? (CBSE 2025)
18. Why are restrictions imposed on MTP in India? Up to how many weeks or trimesters, is MTP considered relatively safe for a female, if necessary to perform, by a medical practitioner? (CBSE 2025)
19. Flowering plants with hermaphrodite flowers have developed many reproductive strategies to ensure cross pollination, study the given outbreeding devices adopted by certain flowering plants and answer the questions that follow.

Stigma \ Pollen grains	Pollen grains of Plant A	Pollen grains of Plant B	Pollen grains of Plant C
Stigma of Plant A	×	✓	✓
Stigma of Plant B	✓	×	✓
Stigma of Plant C	✓	✓	×

Note :

All plants belong to the same species.

× – No pollen tube growth/inhibition of pollen germination on stigma.

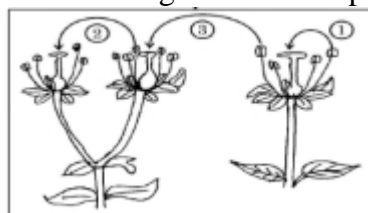
✓ – Pollen germination on stigma.

(a) Name and define the outbreeding device described in the above table.

(b) Explain what would have been the disadvantage to the plant in the absence of the given strategy. (CBSE 2025)

Long Questions (5 marks)

1. a) Distinguish between the two cells enclosed in a mature male gametophyte of an angiosperm.
b) Study the diagram given below showing the modes of pollination. Answer the questions that follow.



- The given diagram shows three methods of pollen transfer in plants. Examine them carefully and write the technical terms used for pollen transfer methods '1', '2' and '3'.
- How do the following plants achieve pollination successfully?
 - Water lily
 - Vallisneria

- iii) Write advantages of pollen transfer in method '3'. (CBSE 2025)
2. (i) Explain the structure of testicular lobules in human male reproductive system. Name the two types of cells present in the seminiferous tubules and state their role.
- (ii) Describe the role of hypothalamic hormone GnRH in spermatogenesis. (CBSE 2025)
3. (i) Explain the structure of a typical monocotyledonous embryo of a flowering plant.
- (ii) How are multiple embryos formed in a citrus fruit? What is the mechanism known as?
4. (i) Name and explain the structural organisation of the male sex accessory ducts in the human male reproductive system.
- (ii) Describe the role of gonadotropin FSH in the regulation of spermatogenesis. (CBSE 2025)
5. Describe the changes in the ovary and the uterus as induced by the changes in the level of pituitary and ovarian hormones during menstrual cycle in a human female. (CBSE 2025)

CLASS XII (2026-27)

SUB: IP

Topic: SQL

CASE STUDY 1

Table: **EMPLOYEE**

EMPNO	ENAME	DEPTNO	SALARY	CITY	COMMISSION
101	Asha	10	25000	Delhi	NULL
102	Ravi	20	30000	Mumbai	5000
103	Neha	10	28000	Delhi	NULL
104	Aman	30	35000	Kolkata	3000
105	Pooja	20	27000	Mumbai	NULL

Q1. Write SQL queries:

- (a) Display employees whose salary is not equal to 30000
- (b) Display employees who are not from Delhi
- (c) Display employees whose commission is not NULL
- (d) Display employees whose salary is greater than 25000 and less than 35000

(e) Display employees whose name has 'a' as second letter

CASE STUDY 2

Using the same table EMPLOYEE:

Q2. Write SQL queries:

(a) Display employees whose name contains 'a' anywhere

(b) Display employees whose name has exactly 5 characters

(c) Display employees whose salary is either 25000 or 30000

(d) Display employees sorted by salary in descending order and by name in ascending order

(e) Display employees from Mumbai whose salary is less than 30000

CASE STUDY 3

Table: **DEPARTMENT**

DEPTNO	DNAME
10	HR
20	Sales
30	IT

Q3. Write SQL queries:

(a) Display employee names along with department names

(b) Display employees working in Sales department

(c) Display employees not working in HR department

(d) Display employee names and department names sorted by department name

(e) What will be the output of the following query? Explain:

```
SELECT ENAME, DNAME
```

```
FROM EMPLOYEE, DEPARTMENT;
```

SUB: ACCOUNTANCY

1. Solve all practical Question of Partnership- Basic Concept and change in Profit sharing ratio up to valuation of goodwill from NCERT Text book.
2. Prepare project Work as per CBSE syllabus 2026-27.

**Please follow the guidelines of CBSE project work for Accountancy.

CLASS XII (2026-27)

SUB: BST

1. Write all chapter's Headings and their sub-headings of each topic in your Homework copy from NCERT Text book.
2. Prepare project Work as per CBSE syllabus 2026-27.

** Please follow the CBSE syllabus 2026-27 for detail guidelines of Business studies project work.

Submission Requirements

- Format: A neatly organized Spiral Binding File with a minimum 25 to 30 pages.
- Inclusions: The project should include an Acknowledgement page, Index, Introduction to the chosen business, the handwritten Accounting Cycle, and the Visual Analytics section.

CLASS XII (2026-27)

SUB: ECONOMICS

Chapter: 1

a. Classify the following as stock and flow. Give reasons of it.

1. Raw material in go down as on 31 December, 2010
2. Amount of Bank deposits as on 31-3-2012
3. Population of India as on 31 March, 2010
4. Number of literate people as on 31-3-2010
5. Production of bricks in the year 2011
6. Profit
7. Losses

8. Savings
9. National income of a country
10. Capital
11. Number of persons employed during February
12. Balance in a bank account
13. Production
14. Wealth
15. GDP

b. Classify the following as factor income or transfer income. Answer with reasons.

1. Financial help to tsunami victims
2. Compensation received from employer.
3. Claim received by a worker from Insurance company due to injury.
4. Birthday gift received from siblings
5. Bonus received on Holi
6. Unemployment allowances
7. Salary received by Suresh from a company.

3. Classify the following as intermediate goods or final goods. Give proper reasons of it.

1. Electricity consumption in a business
2. Book purchased by a student.
3. Books purchased by a book seller.
4. Postage stamps purchased by a book seller
5. Postage stamps purchased by a business unit
6. Coal purchased by a factory.
7. Clothes purchased by individual.
8. Soft drinks purchased by the school canteen.
9. Machine purchased by a firm.
10. Seeds purchased for kitchen gardening
11. Seeds purchased by a farmer to produce wheat

12. Exhaust fans used for mall.
13. Car purchased by a household.
14. Machines purchased by a dealer of machines.
15. Sewing machine purchased by a housewife.
16. Why are money flows opposite to real flows?
17. What is micro macro paradox? Explain it with the help of an example.
18. Explain real flow and money flow with the help of a diagram.
19. Describe four major sectors in an economy according to macroeconomic point of view.
20. Is saving a virtue or a vice?
21. Give some real world examples of stock and flow variables from macro economic point of view.
22. Explain how the four sector plays an important role in an economy.

Chapter: 2

1. Explain how changes in exchange rates can affect the net factor income from abroad and national income.
2. Discuss the role of inventory investment in stabilizing the economy and its impact on national income.
3. "Computers installed in an office" which kind of product is this? Give reasons.
4. Giving reasons, state whether the following statements are true or false:
 - i. Real gross domestic product can be equal to nominal gross domestic product.
 - ii. Butter is only a final product.
 - iii. Net factor income from abroad cannot be negative
 - iv. Net Indirect Taxes cannot be negative.
5. Will the following be treated as resident of India? Answer with reason:
 - a) An Indian citizen living in England for business.
 - b) An Indian citizen working in the office of World Bank located in New Delhi
 - c) An American citizen working in the office of UNO located in India.
 - d) An Indian working in German embassy located in India.
 - e) An Indian citizen working in the office of UNESCO located in America.

- f) A German traveler came to India for tour and travel
- g) Nepali workers who come daily for work in the adjoining areas of India.
- h) A patient from Singapore staying in Indian hospital for treatment.
- i) Indian students living in America for two years for their studies.
- j) Indian High Commissioner posted in Afghanistan.

6. How will you treat the following while estimating GDP and GNP of India?

- a) Rent earned by an Indian resident from his building in Japan.
- b) Salaries received by Indian working in American embassy located in New Delhi.
- c) Profits earned by a branch of a British Bank in India.
- d) Salaries paid to Germans working in Indian embassy in Germany.
- e) Salary paid to an American technician working in an Indian Company at Delhi
- f) Interest earned by an Indian by making bank deposits in Japan.
- g) Profit earned by TCS software company of India from its office in Singapore.
- h) Profit earned by Coca Cola company of USA from its branch in India.
- i) Interest paid to an American depositor for its bank deposits in India.
- j) Salary received by an Indian engineer working in England.

7. calculate the net indirect tax from the following data.

	Particulars	Crores
I	GNP at MP	8000
II	Net factor income from abroad	400
III	Depreciation	200
IV	NDP at FC	7000

- 8. Make a list of exceptions of normal residents of a country.
- 9. Distinction between domestic product and national product.
- 10. Explain the concept of NFIA through a diagram.
- 11. Calculate NFIA if Factor Income from Abroad is ₹1,000 and Factor Income to Abroad is 300.
- 12. Explain the concept of depreciation with a numerical example.

CLASS XII (2026-27)

SUB: MATHS

Chapter 1: Relations and Functions

1. A relation R on set $A = \{1,2,3,4\}$ is defined as $R = \{(a,b) : a - b \text{ is even}\}$. Determine whether R is reflexive, symmetric, and transitive with justification.
2. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2$. Examine whether the function is one-one and onto. Suggest a way to make it invertible.
3. A function models the temperature change during a day as $f(t)$. Explain why this function may not be one-one and discuss implications for inverse.
4. Let n be a fixed positive integer. Define a relation R on \mathbb{Z} as follows, $(a, b) \in R$ iff $a - b$ is divisible by n , show that R is an equivalence relation.
5. Let $f: \mathbb{N} \cup \{0\} \rightarrow \mathbb{N} \cup \{0\}$ be defined by $f(n) = \begin{cases} n + 1 & \text{if } n \text{ is even} \\ n - 1 & \text{if } n \text{ is odd} \end{cases}$, show that f is bijective.
6. Let $f: \mathbb{N} \rightarrow \mathbb{R}$ be a function defined as $f(x) = x^2 + 12x + 15$. Show that $f: \mathbb{N} \rightarrow \text{Range}(f)$ is bijective.
7. Consider the function $f: \mathbb{R}^+ \rightarrow [-9, \infty)$ given by $f(x) = 5x^2 + 6x - 9$. Show that f is bijective.
8. Show that the relation R on the set $\mathbb{N} \times \mathbb{N}$ defined by $(a, b)R(c, d) \Leftrightarrow a + d = b + c$ for all $(a, b), (c, d) \in \mathbb{N} \times \mathbb{N}$ is an equivalence relation.

Chapter 2: Inverse Trigonometric Functions

9. Find the domain of $\sec^{-1}(2x + 1)$.
10. Find the domain of $\cos^{-1}(2x - 1)$
11. Find the principal values of $\sec^{-1}(2)$ (ii) $\cos^{-1}\left(\frac{\sqrt{3}}{2}\right)$.

Chapter 3: Matrices

12. If $A = \begin{bmatrix} 2 & 3 \\ 1 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 2 \\ 3 & 0 \end{bmatrix}$, verify whether $AB = BA$ and interpret the result.
13. A company produces two products. The production and cost data are represented in matrix form. Explain how matrices help in decision-making.
14. Given $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$, find A^2 and interpret the result.
15. Show that matrix multiplication is associative but not commutative using examples.

CLASS XII (2026-27)

SUB: WE

1. Make a Bridge Rectifier (4 numbers of diode, 6 volt/12volt/36 volt transformer, Condenser etc. materials used).
2. Block diagram showing how electricity distributed from generating station to consumer connection.

CLASS XII (2026-27)

SUB: LIBRARY

Students are required to read about any one of the following personalities and write a detailed book review in their own words:

1. Dr. B. R. Ambedkar
2. Dr. A. P. J. Abdul Kalam
3. Subhash Chandra Bose
4. Rabindranath Tagore
5. Bhagat Singh

Your review should include the following points:

- Title of the book and author's name
- Summary of the content
- Important events or achievements
- What you learned from it
- Your personal opinion

Please ensure that your work is neat, well-organized, and submitted on time.

CLASS XII (2026-27)

SUB: YOGA

1. Meaning of Shatkarma with name & definition.
2. Prepare a chart of any 2 asanas, 2 Yogic mudras & 2 Pranayamas with their methods & benefits.
3. Write a note on Patanjali Ashtanga Yoga.
4. Write a notes on CPR (Cardiopulmonary resuscitation)

Practical work

Students will perform one FRONT bending asana, one BACK bending Asana & one Balance posture asana & click all three asanas in good quality, and paste these in your yoga note book with asanas name and benefits.

