

# PM SHRI KENDRIYA VIDYALAYA SRIKAKULAM

## Holiday Homework (Summer Vacation 2026)

(Class VI to X & XII)

CLASS – VI	
SUBJECT	HOMEWORK
ENGLISH	<p><b>Section A: Reading Skills</b></p> <ol style="list-style-type: none"><li>1. Read any 2 chapters from your <i>Poorvi</i> textbook.</li><li>2. Write:<ul style="list-style-type: none"><li>○ Title of the chapter</li><li>○ Main characters</li><li>○ Summary (in 80–100 words)</li><li>○ Moral of the story</li></ul></li></ol> <p><b>Section B: Writing Skills</b></p> <p><b>1. Paragraph Writing (any 2)</b></p> <ul style="list-style-type: none"><li>• My Favourite Festival</li><li>• A Visit to a Park</li><li>• My Best Friend</li><li>• How I Spent My Summer Vacation</li></ul> <p><i>(Write 80–100 words each)</i></p> <p><b>2. Letter Writing</b></p> <p>Write a letter to your friend describing your summer holidays.</p> <p><b>3. Picture Composition</b></p> <ul style="list-style-type: none"><li>• Paste/draw a picture (park, beach, village scene, etc.)</li><li>• Write 5–6 sentences about it</li></ul> <p><b>Section C: Grammar Practice</b></p> <p><b>1. Parts of Speech</b></p> <p>Write 2 examples each of:</p> <ul style="list-style-type: none"><li>• Noun</li><li>• Pronoun</li><li>• Verb</li></ul>

	<ul style="list-style-type: none"> <li>• Adjective</li> <li>• Adverb</li> </ul> <p><b>2. Tenses</b></p> <p>Write 5 sentences each in:</p> <ul style="list-style-type: none"> <li>• Present tense</li> <li>• Past tense</li> <li>• Future tense</li> </ul> <p><b>3. Articles (a, an, the)</b></p> <p>Fill in the blanks:</p> <ol style="list-style-type: none"> <li>1. ___ apple a day keeps the doctor away.</li> <li>2. I saw ___ elephant in the zoo.</li> <li>3. ___ sun rises in the east.</li> </ol> <p><b>Section D: Creative Work</b></p> <p><b>1. Vocabulary Chart</b></p> <ul style="list-style-type: none"> <li>• Make a colorful chart of <b>10 new words</b></li> <li>• Write meaning + sentence for each</li> </ul> <p><b>2. Poem Recitation</b></p> <ul style="list-style-type: none"> <li>• Learn any one poem from the <i>Poorvi</i> textbook</li> <li>• Write it neatly in your notebook</li> </ul> <p><b>3. Story Writing</b></p> <p>Write a short story with the help of the hint:  <b>“A thirsty crow found a pot...”</b></p> <p><b>Section E: Speaking Activity</b></p> <ul style="list-style-type: none"> <li>• Speak for 1 minute on:  <b>“My Favourite Hobby”</b>  <i>(Practice at home)</i></li> </ul>
<b>HINDI</b>	<p>प्रश्न 1. गर्मियों की छुट्टियों में आपकी दिनचर्या क्या रही अपने मामा जी को इस पर एक पत्र लिखिए।</p> <p>प्रश्न 2. भारत के राज्यों और उन राज्य में बोली जाने वाली भाषाओं की सूची तैयार कीजिए।</p>

	<p>प्रश्न 3. दस पेज सुलेख लिखिए।</p> <p>प्रश्न 4. संज्ञा एवं सर्वनाम की परिभाषा उदाहरण सहित लिखिए।</p> <p>प्रश्न 5. कक्षा में पढ़ाए गए सभी पाठों की पुनरावृत्ति करें व प्रश्न उत्तर याद करें।</p> <p>प्रश्न 6. 'झांसी की रानी लक्ष्मीबाई' की वीरता की कहानी अपने शब्दों में लिखिए व इस पर एक पोस्टर तैयार कीजिए।</p>
<b>SANSKRIT</b>	<ol style="list-style-type: none"> <li>1. विषय संवर्धन पुस्तिकायां प्रदत्त गतिविधीनां पूर्ति: करणीयम् ।</li> <li>2. कला समेकित परियोजना मध्ये पंजाब प्रदेशस्य सांस्कृतिक वैशिष्ट्यम् लिखत।</li> <li>3. पाठ्यपुस्तके प्रथमतः तृतीय पाठ पर्यन्तं शब्दार्थः एवं प्रश्नोत्तरानि त्रिवारं लेखनीयम्।</li> </ol>
<b>SCIENCE</b>	<p>I. Read chapter 2 and 3 of class 6 science textbook and write key words in home work book</p> <p>II. Collect 4 different types of leaves, flowers, seeds. Dry then between newspaper and paste them in A4 papers write about it</p> <ol style="list-style-type: none"> <li>a. Types of leaves, Name of plant leaf. Plant name and it's uses . Place of collection</li> <li>b. Plant name and it's flower. Uses and place of collection</li> <li>c. Seed name , uses of seed and place of collection</li> </ol> <p>III. Activites in textbook of class 6.</p> <ul style="list-style-type: none"> <li>-Activity 2.1 page number 11 and 12</li> <li>-Activity 2.3 page 14</li> <li>-Activity 2.4 page 16</li> </ul> <p>IV. 3D MODELS</p> <p>make a 3-D working model on following topics:-</p> <p>*Sub- themes:</p> <ol style="list-style-type: none"> <li>1. Sustainable Agriculture</li> <li>2. Waste management and alternative to plastic</li> <li>3. Green Energy</li> <li>4. Emerging Technology</li> <li>5. Recreational</li> <li>Mathematical modelling</li> <li>6. Health and Hygiene</li> <li>7. Water conservation and management</li> </ol>
<b>MATH</b>	<p style="text-align: center;"><b>1<sup>ST</sup> Week</b></p> <ol style="list-style-type: none"> <li>1. Fill in the blanks in the given pattern :       <ol style="list-style-type: none"> <li>(i) 2,4,6,8, ..... , ..... , ..... .</li> <li>(ii) 3,5,7,9, ..... , ..... , ..... .</li> <li>(iii) 1,3,6,10, ..... , ..... , ..... .</li> <li>(iv) 1,4,9,16, ..... , ..... , ..... .</li> <li>(v) 1,2,3,5,8, ..... , ..... , ..... .</li> <li>(vi) 1,3,9,27, ..... , ..... , ..... .</li> </ol> </li> </ol>

2. Expand the following pattern up to 10 numbers

- (a)  $1 = 1$
- (b)  $1 + 3 = 4$
- (c)  $1 + 3 + 5 = 9$
- (d) .....
- (e) .....
- (f) .....
- (g) .....
- (h) .....
- (i) .....

**2<sup>nd</sup> Week**

3. Expand the following pattern up to 15 numbers :

- (a)  $1 = 1$
- (b)  $1 + 2 + 1 = 4$
- (c)  $1 + 2 + 3 + 2 + 1 = 9$
- (d) .....
- (e) .....
- (f) .....
- (j) .....
- (k) .....
- (g) .....
- (h) .....

4. Define the following : (a) Natural number (b) Whole number (c) Even number (d) Odd number (e) Prime number (f) Composite number (g) Triangular number (h) Regular Polygon (i) Virahanka number

5. Complete the following table for polygon

Number of Sides	Name of regular polygon	Measure of each interior angle	Fig. of polygon
3 Sides			
4 Sides			
5 Sides			
6 Sides			
7 Sides			
8 Sides			

**3<sup>rd</sup> Week**

6. Compare using  $> = <$  :

- (a)  $34872 \_ 34900$  (b)  $87945 \_ 78945$  (c)  $724582 \_ 88899$  (d)  $206006 \_ 116116$

- (e) 846470 \_\_ 847740 (f) 42358 \_\_ 423580 (g) 304560 \_\_\_\_ 345269  
(h) 3045 \_\_ 3321  
(i) 97542 \_\_\_\_ 95724

7. Arrange the given numbers in ascending order.

- (a) 58,992; 59,228; 8,59,992; 1,54,992  
(b) 7,96,441; 8,96,441; 7,99,641; 8,59,821  
(c) 6,89,774; 6,78,940; 7,18,444; 5,68,710  
(d) 3,80,751; 3,36,547; 3,98,694; 3,26,880  
(e) 5,56,442; 5,26,452; 5,95,442; 5,34,561

8. Arrange the given numbers in descending order.

- (a) 71,800; 40,875; 72,984; 6,98,504  
(b) 8,63,019; 8,60,548; 8,65,881; 8,59,004  
(c) 6,30,062; 1,63,050; 8,39,035; 5,69,204  
(d) 3,80,651; 3,37,547; 3,90,694; 3,36,880  
(e) 8,56,422; 8,26,452; 8,95,442; 8,34,561

9. Use the given digits without repetition and make the greatest and smallest numbers.

- (a) 2, 8, 7, 4 (b) 9, 7, 4, 1 (c) 4, 7, 5, 0 (d) 1, 7, 6, 2 (e) 5, 4, 0, 3 (f) 3, 5, 8, 0, 1

#### 4<sup>th</sup> Week

10. Rewrite the following numbers placing comma (,) as per the Indian system:

- (i) 645367 (ii) 50301268 (iii) 436405 (iv) 3268431  
(v) 2414360

11. Write the following in figures.

- (i) Six million, four hundred and eleven thousand, two hundred and sixty  
(ii) Sixty-five million, one hundred and sixteen thousand, five hundred and five  
(iii) Six hundred thousand, two hundred and fifteen  
(iv) One hundred and sixteen million, One hundred and ten thousand, and thirty-nine  
(v) Fifty-five million, four hundred and sixty thousand, nine hundred and two

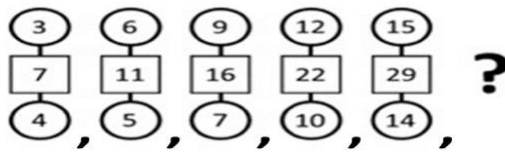
12. Make two magic squares with the help of numbers.

#### 5<sup>th</sup> Week

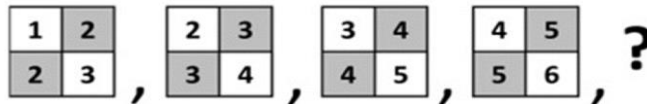
13. The following series follows a fixed pattern: 2, 3, 3, 4, 4, 4, 5, 5, 5, 5, 6, ... If the pattern continues,

determine how many times the number 9 appears in the NEXT 20 terms.

14. What will come in place of "?" in the given series?



15. What will come in place of "?" in the given series?



### 6<sup>th</sup> Week

16. Make a Rangoli (Geometry art project) with the help of shapes, lines and angles.

17. Draw a map of your Dream House and colour it.

**SST**

Map Pointing

1. Locate the following in the World Map.
  - a) Continents
  - b) Oceans
  - c) Islands of India
2. Locate the following in India Political Map
  - a) Mumbai
  - b) Kolkata
  - c) Chennai
  - d) Bengaluru
  - e) Kanya Kumari
3. Draw the picture of the water sources.
4. Water Cycle: Draw the pictures and write the terms
5. What is water crisis or Water scarcity? What are the major reasons of water crisis and how to save water? Write a short note on it.
6. Think and make a 3D Model of the World with and without water.

**AI**

1. What is a pattern in mathematics?
2. What are odd, even, prime numbers?  
write the even, odd, prime numbers below 100 numbers.
3. What is artificial intelligence?
4. Write step-by-step daily routine. Draw the Diagram (flow chart) to daily routine.
5. What is direction. How many directions.  
Write their names. Draw the diagram.

**CLASS – VII**

<b>ENGLISH</b>	<p>Write a paragraph (120–150 words) on any one topic: Importance of Family A Funny Incident from My Childhood My Favourite Festival Letter Writing Write an informal letter to your friend describing how you are spending your holidays. Grammar Identify and write 10 examples each from your textbook: Nouns Verbs Adjectives Make sentences using: 5 compound words 5 conjunctions Write 5 sentences each: Simple sentences Compound sentences</p>
<b>HINDI</b>	<p>1. आत्म-अभिव्यक्ति यदि पेड़ बोल सकते, तो वे मनुष्यों से क्या कहते? अपने विचार 100 शब्दों में लिखिए। 2. कल्पना-शक्ति प्रश्न यदि आपको "तीन बुद्धिमान" कहानी का पात्र बनने का अवसर मिले तो आप कौन सा पात्र बनेंगे और क्यों? 3. संवाद लेखन सूरज और बादल के बीच 8–10 पंक्तियों का रोचक संवाद लिखिए। 4. चित्र देखकर कहानी अपने मन से कोई चित्र बनाइए (जंगल/गाँव/बाज़ार) और उसके आधार पर कहानी लिखिए। 5. प्रश्न निर्माण गतिविधि अपने आसपास की प्रकृति को देखकर स्वयं 10 प्रश्न बनाइए और उनके उत्तर लिखिए। (जैसे— पक्षी सुबह ही क्यों चहचहाते हैं?) 6. साक्षात्कार कार्य घर के किसी बुजुर्ग से पूछिए— उनके समय में पढ़ाई कैसी थी ? छुट्टियाँ कैसे बिताते थे ? उत्तर लिखिए। 7. पर्यावरण चुनौती अपने घर में पानी बचाने के 5 तरीके खोजिए और लिखिए।</p>
<b>SANSKRIT</b>	<p>1. विषय संवर्धन पुस्तिकायां प्रदत्त गतिविधीनां पूर्तिः करणीयम् । 2. कला समेकित परियोजना मध्ये पंजाब प्रदेशस्य सांस्कृतिक वैशिष्ट्यम् लिखत। 3. पाठ्यपुस्तके प्रथमतः तृतीय पाठ पर्यन्तं शब्दार्थः एवं प्रश्नोत्तरानि त्रिवारं लेखनीयम्।</p>
<b>SCIENCE</b>	<p>1. learn chapter 1 and chapter 2 question answer 2. Write/draw table 3.2 (pg-33) in SEA notebook. 3. write activity 3.10 and 3.11 in SEA notebook (pg-34 and 35).</p>

	<p>4. read chapter 3 and write 20 difficult word from it in cw Notebook.</p> <p>5. Art integrated project report:-(in A4 sheet)</p> <p>i) types of Nutrition (roll no. 1-10)</p> <p>ii) types of adaptation in plants and animals (roll no. 11-20)</p> <p>iii) herbarium file on medicinal plant (roll no. 21-30)</p> <p>iv) types of motion (roll no. 31-40)</p> <p>make a 3-D working model on following topics:- Sub- themes:</p> <ol style="list-style-type: none"> <li>1. Sustainable Agriculture</li> <li>2. Waste management and alternative to plastic</li> <li>3. Green Energy</li> <li>4. Emerging Technology</li> <li>5. Recreational Mathematical modelling</li> <li>6. Health and Hygiene</li> <li>7. Water conservation and management</li> </ol>
<b>MATH</b>	<ol style="list-style-type: none"> <li>1. Learn and write Table from 1 to 20.</li> <li>2. Convert Rupees in paisa: a) Rs 50 b) Rs 101</li> <li>3. Convert kilogram into grams: a) Rs 7 Kg b) 21 kg</li> <li>4. Write the population of any 5 countries and write it in India and International System of numeration.</li> <li>5. Make a wall hanging using different shapes( triangle, square, rectangle, circle, oval etc). You can use different colour paprs, skech pen, etc to decorate it</li> <li>6. Solve following questions: a) <math>(-10) + (-20) + (-30)</math> c) <math>30 - (-10)</math> b) <math>(-60) - (-30)</math> d) <math>50 + (-50)</math></li> <li>7. Find the product of following: a) <math>(-20) \times (-30)</math> c) <math>313 \div (-313)</math></li> </ol>

	<p>b) <math>(-1) \times (-2) \times (-3)</math> d) <math>(-25) \div (-25)</math></p> <p>8. Draw a line-segment <math>AB = 6</math> cm and draw circles of radius 4cm taking A and B as the center of the circle.</p> <p>9. Draw a square whose sides are 6 cm.</p> <p>10. Make a 5 tangrams in A4</p> <p>11. Prepare 1st lesson for PT 1</p>
<b>SST</b>	<ol style="list-style-type: none"> <li>1. Learner Diary Lesson -1</li> <li>2. Key words in Class Work Lesson – 2 (Write and Learn)</li> <li>3. Question and Answer of Lesson – 1 in Home Work (Write and Learn)</li> <li>4. Observe around you and collect the news information regarding the water scarcity faced by the people and write the complete news (Date, Place etc.) along with the newspaper cutting.</li> <li>5. Which UNESCO Heritage Site mentioned in Chapter – 1. Did you find more interesting? Write a short paragraph to describe what about it is interesting.</li> <li>6. Food preservation techniques differ from place to place across India. They are adapted to Local conditions. Ask you parents and ground parents and find out such more techniques and write it down. (Pictures may be pasted)</li> <li>7. What do you think India might have looked like if the Himalayas did not exist? Write a short note or sketch a drawing to express your imagination.</li> </ol>
<b>AI</b>	<ol style="list-style-type: none"> <li>1. What is arithmetic expression. Give two examples.</li> <li>2. Do the problems upto 2nd chapter in computational thinking.</li> <li>3. What are domains of ai. Give real life time examples to each domain.</li> <li>4. What are applications of artificial intelligence in everyday life? Give examples.</li> <li>5. Write the 2,3,4,5 Digit small numbers and large numbers.</li> </ol>

**ENGLISH**

**Section A: Reading Skills**

1. Read any **3 chapters** from your *Poorvi* textbook.
2. For each chapter, write:
  - Title
  - Author (if given)
  - Characters
  - Summary (100–120 words)
  - Message/Moral

**Section B: Writing Skills**

**1. Paragraph Writing (any 3)**

*(100–120 words each)*

- Importance of Trees
- My Favourite Book
- A Memorable Journey
- Role of Technology in Our Life
- My Aim in Life

**2. Letter Writing**

Write a letter to your friend describing:

**“How you are spending your summer vacation”**

**3. Diary Entry**

Write a diary entry about:

**“The happiest day of your holidays”**

**Section C: Grammar Practice**

**1. Parts of Speech**

Write 3 examples each of:

- Noun
- Pronoun
- Verb
- Adjective
- Adverb

- Preposition
- Conjunction

## **2. Tenses**

Write 5 sentences each in:

- Present Tense
- Past Tense
- Future Tense

## **3. Active and Passive Voice**

Change the voice:

1. Ram wrote a letter.
2. She is reading a book.
3. They will finish the work.

## **4. Direct and Indirect Speech**

Change into indirect speech:

1. He said, "I am tired."
2. She said, "I will help you."

## **Section D: Creative Work**

### **1. Vocabulary Builder**

- Learn and write **15 new words**
- Write meaning + sentence

### **2. Poster Making**

Make a poster on:

- Save Environment
- OR**
- Importance of Cleanliness

### **3. Story Writing**

Write a story using the hint:

	<p><b>“Honesty is the best policy”</b></p> <p><b>Section E: Speaking Activity</b></p> <p>Prepare a short speech (1–2 minutes) on:</p> <ul style="list-style-type: none"> <li>• Importance of Education</li> </ul> <p><b>OR</b></p> <ul style="list-style-type: none"> <li>• My Favourite Teacher</li> </ul>
<b>HINDI</b>	<ol style="list-style-type: none"> <li>1. अपने गाँव/शहर की किसी समस्या का समाधान सुझाते हुए अनुच्छेद लिखिए।</li> <li>2. यदि आप एक दिन के लिए शिक्षा मंत्री बन जाएँ, तो विद्यालयों में क्या परिवर्तन करेंगे?</li> <li>3. “प्रकृति हमारी सबसे बड़ी गुरु है” — इस विषय पर अपने विचार लिखिए।</li> <li>4. अपने दादा-दादी/नाना-नानी से उनके बचपन के खेलों के बारे में जानकर लिखिए।</li> <li>5. “मोबाइल और पुस्तक” के बीच काल्पनिक संवाद लिखिए।</li> <li>6. यदि आप किसी कहानी के पात्र बन सकते, तो कौन बनते और क्यों?</li> <li>7. अपने सपनों के भारत की कल्पना करके वर्णन कीजिए।</li> <li>8. गर्मी की छुट्टियों के अनुभवों पर एक यात्रा-वृत्तांत या डायरी लिखिए।</li> </ol>
<b>SANSKRIT</b>	<p>भाग: – अ (गतिविधि:)</p> <ol style="list-style-type: none"> <li>1. गतिविधि: – ३ □ पृष्ठसंख्या – २४ ☞ □ निर्दिष्ट गतिविधि कुर्वन्तु।</li> <li>2. गतिविधि: – ४ □ पृष्ठसंख्या – २५ ☞ □ श्लोकसंख्या – २, ४, ६, ८ लिखन्तु तथा कण्ठस्थं कुर्वन्तु।</li> <li>3. गतिविधि: – ५ □ पृष्ठसंख्या – ४७-४८ ☞ □ निर्दिष्ट गतिविधि सम्पूर्णतया कुर्वन्तु।</li> </ol> <p>भाग: – ब (गतिविधि:)</p> <ol style="list-style-type: none"> <li>1. कालसम्बन्धितं परियोजनाकार्यम् ☞ □ समयविषये लघुपरियोजनां निर्माय प्रस्तुतयन्तु।</li> <li>2. चित्रसहितं शब्दकोशनिर्माणम्</li> </ol>

	<p>☞ □ चित्रैः सह शब्दानां संग्रहं कृत्वा शब्दकोशं निर्मायताम्।</p> <p>3. प्रथमात् तृतीयपाठपर्यन्तं शब्दार्थाः तथा प्रश्नोत्तराणि लिखन्तु ☞ □ पाठ १-३ पर्यन्तं शब्दार्थान् प्रश्नोत्तराणि च लिखन्तु।</p> <p>निर्देशाः (Instructions)</p> <p>स्वच्छेन लेखनेन लिखन्तु।</p> <p>A4-पत्रेषु कार्यं कुर्वन्तु।</p> <p>समये समर्पयन्तु।</p>
<b>SCIENCE</b>	<p>1. Learn/Write 20 elements name with symbols in C.W. notebook. 2. read chapter- 3 and write 20 difficult words from it in cw Notebook. 3. write table 3.1 (page number- 33) in your SEA activity notebook. 4. make a chart on:-</p> <p>i )global warming (Roll no. 1-10) ii) phases of moon (Roll No.-11-20) iii) nutrition deficiency disease (Roll no: 21-30) iv) Plant cell and Animal cell (Roll no: 31-40)</p> <p>make a 3-D working model on following topics:- Sub- themes:</p> <ol style="list-style-type: none"> <li>1. Sustainable Agriculture</li> <li>2. Waste management and alternative to plastic</li> <li>3. Green Energy</li> <li>4. Emerging Technology</li> <li>5. Recreational Mathematical modelling</li> <li>6. Health and Hygiene</li> <li>7. Water conservation and management</li> </ol>
<b>MATH</b>	<p style="text-align: center;"><b>1<sup>st</sup> Week</b></p> <p>1. Writ the Square of the numbers from 1 to 50 .</p>

2. Write the Cube of the numbers from 1 to 25 .
3. Find square root of following numbers by Repeated subtraction method  
 $\sqrt{36}$  ,  $\sqrt{100}$  ,  $\sqrt{225}$  ,  $\sqrt{400}$  .
4. Find square root of following numbers by Prime factorization method .  
 $\sqrt{64}$  ,  $\sqrt{144}$  ,  $\sqrt{256}$  ,  $\sqrt{441}$  ,  $\sqrt{676}$  .

### 2<sup>nd</sup> Week

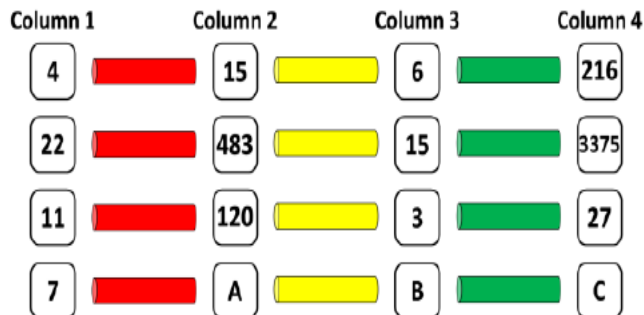
5. Find cube root of following numbers by Prime factorization method .  
 $\sqrt[3]{64}$  ,  $\sqrt[3]{1000}$  ,  $\sqrt[3]{512}$  ,  $\sqrt[3]{729}$  ,  $\sqrt[3]{1728}$
6. Find the smallest square number that is divisible by each of the following numbers: 4, 9, and 10.
7. How many numbers lie between the squares of the following numbers?  
 (i) 16 and 17 (ii) 99 and 100
8. State true or false. Explain your reasoning.  
 (i) The cube of any odd number is even.  
  
 (ii) There is no perfect cube that ends with 8.  
 (iii) The cube of a 2-digit number may be a 3-digit number.  
 (iv) The cube of a 2-digit number may have seven or more digits.  
 (v) Cube numbers have an odd number of factors.

### 3<sup>rd</sup> Week

9. Make magic square of 5 x 5 from 1 to 25 numbers.
10. Make magic square of 7 x 7 from 1 to 49 numbers.

### 4<sup>th</sup> Week

11. The image below shows a logic machine, where numbers move from Column to Column (starting from column 1 as input and reach column 4) through the tunnel, where they change in a different way, each time. What would be the sum of A, B, and C ?



12. Each geometrical shape denotes a certain operation. What will come in place of “?”

$$\begin{array}{cc}
 \boxed{16} \longrightarrow 256 & \boxed{19} \longrightarrow 361 \\
 \boxed{15} \longrightarrow 3375 & \boxed{11} \longrightarrow 1331 \\
 \boxed{14} + \boxed{12} \longrightarrow ? & 
 \end{array}$$

**5<sup>th</sup> Week**

13. Draw different types of quadrilaterals and write its properties .

**6<sup>th</sup> Week**

14. Write 20 SentenceS about great Mathematician

**“Aryabhata” and “S. Ramanujan”**

SST

- ❖ Art integrated project- under the “EK BHARAT SHRESTH BHARAT” from the paired state PUNJAB
- ❖ Instruction- Choose and complete any one of these six given topics below
  - Make 3D model- Gurudwara or Haveli of Punjab
  - Make 3D model of five rivers of Punjab and contribution of rivers
  - Voice of Bravery- make collage, flipbook, scrap book or album of nationalist movement in Punjab and freedom fighters of Punjab
  - Phulkari work/ art and craft/ clothing style of Punjab- make album by waste materials
  - The Golden Grain Journey- agriculture and economy of Punjab (make 3d model/album/collage)
  - Famous places of Punjab- make miniature 3D model
    - I. Jallianwala bagh
    - II. Wagah border
    - III. Golden temple/ harmandir sahib
    - IV. Gobindgarh fort
    - V. Seesh mahal
    - VI. Virasat-e-khalsa
    - VII. Qila Mubarak

❖ **Subject Enrichment project**

Instruction- Choose and complete any one of these three given topics below

- Make Album/ flip book/ scrap book/ brochure – important rulers of Maratha empire (paste their picture and their contribution)
- Geographical/ territorial expansion of Maratha empire- make hand drawn map and label the area with small flag.
- Create a comic book of Maratha empire-
  - I. Create script
  - II. Make story of rise and fall of Maratha empire
  - III. Hero- shivaji
  - IV. Include Conflict/ resistance/war/ battle
  - V. climax

**AI**

1. Write squares & cubes upto 30 numbers.
2. what is analysing data, data cleaning in ai project life cycle. Give one example to each.
3. What is data processing in ai project life cycle. Give one example to it.
4. How does ai work.
5. Write process to building an ai system to detect fake news.

**CLASS - IX**

ENGLISH

**Section A: Reading Skills**

1. Read any **3–4 chapters** from your *Kaveri* textbook.
2. For each chapter, write:
  - Title
  - Author/Poet
  - Main Characters
  - Summary (120–150 words)
  - Theme/Message

**Section B: Writing Skills**

**1. Paragraph Writing (any 3)**

*(120–150 words each)*

- Importance of Discipline
- Social Media: Boon or Bane
- A Visit to a Historical Place
- My Favourite Teacher
- Environmental Pollution

**2. Article Writing**

Write an article (150–180 words) on:

**“Importance of Time Management for Students”**

**3. Letter Writing (Formal)**

Write a letter to the Principal requesting:

**“Permission to organize a cleanliness drive in your school”**

**4. Diary Entry**

Write a diary entry about:

**“An unforgettable day during your summer vacation”**

**Section C: Grammar Practice**

**1. Tenses**

Write 5 sentences each in:

- Present Tense
- Past Tense
- Future Tense

## **2. Active and Passive Voice**

Change into passive voice:

1. She wrote a poem.
2. They are playing cricket.
3. He will complete the work.

## **3. Direct and Indirect Speech**

Change into indirect speech:

1. He said, "I am happy."
2. She said, "I have finished my homework."

## **4. Modals**

Fill in the blanks using suitable modals (can, could, must, should, may):

1. You \_\_\_ respect your elders.
2. \_\_\_ I come in?
3. We \_\_\_ finish our work on time.

## **Section D: Creative Work**

### **1. Poster Making**

Make a poster on:

- Save Water
- OR**
- Say No to Plastic

### **2. Story Writing**

Write a story based on the idea:

**"Where there is a will, there is a way"**

	<p><b>3. Vocabulary Enhancement</b></p> <ul style="list-style-type: none"> <li>• Learn and write <b>20 new words</b></li> <li>• Include meanings and sentences</li> <li>•</li> </ul> <p><b>Section E: Speaking &amp; Listening</b></p> <p>Prepare a speech (2–3 minutes) on:</p> <ul style="list-style-type: none"> <li>• Importance of Education</li> </ul> <p><b>OR</b></p> <ul style="list-style-type: none"> <li>• Role of Youth in Nation Building</li> </ul>
<b>HINDI</b>	<p>(1)*दो बैलों की कथा* में आए निम्नलिखित पात्रों का चरित्र-चित्रण कीजिए - *(शब्द सीमा – 350)* *झूरी काछी* *झूरी की पत्नी* *हीरा* *मोती* *गया* *भैरव* *छोटी बच्ची।*</p> <p>(2)भारतीय कृषक समाज विषय पर सारगर्भित शब्दों में निबंध लिखिए - (शब्द सीमा – 250)</p> <p>(3)कहानी में जगह-जगह *मुहावरों का प्रयोग किया गया है। पाठ में आए किन्हीं 10 मुहावरों का वाक्य प्रयोग अर्थ सहित कीजिए।</p> <p>(4)अपने किसी एक यात्रा से हुए अनुभव का वर्णन कीजिए। (शब्द सीमा – 250)</p>
<b>SANSKRIT</b>	<ol style="list-style-type: none"> <li>1. विषय संवर्धन पुस्तिकायां प्रदत्त गतिविधीनां पूर्ति: करणीयम् ।</li> <li>2. कला समेकित परियोजना मध्ये पंजाब प्रदेशस्य सांस्कृतिक वैशिष्ट्यम् लिखत।</li> <li>3. समूह कार्यम् – देवनागरी एवं रोमन लिपे:अक्षर विन्यासस्य उपरि एकं परिशीलनम् – विषयं अधिकृत्य कला समेकित् परियोजना निर्मातव्यम्।</li> <li>4. पाठ्यपुस्तके प्रथमतः पञ्चम पाठ पर्यन्तं शब्दार्थः एवं प्रश्नोत्तरानि त्रिवारं लेखनीयम्।</li> </ol>
<b>SCIENCE</b>	<ol style="list-style-type: none"> <li>1. learn/write question answer of chapter:- mixture and their separation and chapter:- cell in your HW notebook.</li> <li>2. learn and write 20 elements with their symbols, atomic number, atomic mass and valency in your cw notebook.</li> <li>3. write activities in your spiral of chapter:- i ) exploring mixture and their separation ii) cell: the building blocks of life</li> </ol> <p>make a 3-D working model on following topics:- Sub- themes:</p>

	<ol style="list-style-type: none"> <li>1. Sustainable Agriculture</li> <li>2. Waste management and alternative to plastic</li> <li>3. Green Energy</li> <li>4. Emerging Technology</li> <li>5. Recreational Mathematical modelling</li> <li>6. Health and Hygiene</li> <li>7. Water conservation and management</li> </ol>
<b>MATH</b>	<ol style="list-style-type: none"> <li>1. Write comparative study between Andhra Pradesh and Kerala</li> <li>2. Complete the Portfolio</li> <li>3. Write 50 squares and 20 cubes</li> <li>4. Prepare Direct and indirect proportion</li> <li>5. Prepare co-ordinate Geometry</li> <li>6. Make 3 fractals in A4 sheet</li> </ol>
<b>SST</b>	<ul style="list-style-type: none"> <li>❖ Art integrated project- under the “EK BHARAT SHRESTH BHARAT” from the paired state PUNJAB</li> <li>❖ Instruction- Choose and complete any one of these seven given topics below <ul style="list-style-type: none"> <li>• Make 3D model- Gurudwara or Haveli of Punjab</li> <li>• Make 3D model of five rivers of Punjab and contribution of rivers</li> <li>• Voice of Bravery- make collage, flipbook, scrap book or album of nationalist movement in Punjab and freedom fighters of Punjab</li> <li>• Phulkari work/ art and craft/ clothing style of Punjab- make album by waste materials</li> <li>• The Golden Grain Journey- agriculture and economy of Punjab (make 3d model/album/collage/ brochure)</li> <li>• Physical features of Punjab- 3D model//album/collage/ brochure</li> <li>• Famous places of Punjab- make miniature 3D model <ol style="list-style-type: none"> <li>VIII. Jallianwala bagh</li> <li>IX. Wagah border</li> <li>X. Golden temple/ harmandir sahib</li> <li>XI. Gobindgarh fort</li> <li>XII. Seesh mahal</li> <li>XIII. Virasat-e-khalsa</li> <li>XIV. Qila Mubarak</li> </ol> </li> </ul> </li> <li>❖ <b>Subject Enrichment project</b> Instruction- individual work (compulsory for all) <ul style="list-style-type: none"> <li>• make collage/ album/ brochure of-</li> </ul> </li> </ul>

	<ul style="list-style-type: none"><li>➤ major landforms and their formation- mountain, plateau, river plain, coastal plain, glacial plain, desert, coastal landforms and living style of people in the area (from ncert new book class 9th)</li><li>● make flip book/ scrap book on natural disaster-<ul style="list-style-type: none"><li>➤ Earthquake, Land slide, Avalanches, Dust storm, Glacial lake outburst flood</li></ul></li><li>● Make comic book/ visuals/ short video on – The journey of human from hunter-gatherer to civilization.</li></ul>
<b>AI</b>	<ol style="list-style-type: none"><li>1. What is greeting?types of greeting.write 3-4 lines to each.</li><li>2. What is sentence &amp; phrase.Give two examples to each.</li><li>3. What is Non- verbal communication.write brief explanation to it .</li><li>4. What is body language.write short notes.</li><li>5. What is confusion matrix.explain with examples.</li></ol>

**CLASS – X**

<b>ENGLISH</b>	<p>1.Prepare a portfolio of your own.</p> <p>2.Prepare one worksheets of the following grammar topics:</p> <p>a) Subject-verb agreement</p> <p>b) Reported speech</p> <p>c)Modals</p> <p>d)Tenses</p> <p>e) Determiners</p> <p>3.Write four following formal letters :</p> <p>a) Letter to Editor</p> <p>b) Letter of Complaint</p> <p>c) Letter to place order</p> <p>d) Letter of enquiry</p> <p>4. Write any five Analytical paragraphs.</p>
<b>HINDI</b>	<p>(1)सूरदास का जीवन परिचय विस्तारपूर्वक निम्नलिखित बिंदुओं के आधार पर दीजिए - *जीवन परिचय *रचनाएँ *काव्यगत विशेषताएँ *भाषा – शैली। (शब्द सीमा – 250)</p> <p>(2) सूरदास के पद में आए “भ्रमरगीत” को समझाते हुए निम्नलिखित पात्रों की भूमिका सचित्र बताइये - *श्रीकृष्ण *गोपियाँ *उद्धव।</p> <p>(3)सिद्ध कीजिए कि “ *भ्रमरगीत, ज्ञान पर प्रेम की विजय है।* ”</p> <p>(4)तुलसीदास का जीवन परिचय विस्तारपूर्वक निम्नलिखित बिंदुओं के आधार पर दीजिए - *जीवन परिचय *रचनाएँ *काव्यगत विशेषताएँ *भाषा – शैली। (शब्द सीमा – 250)</p> <p>(5)कभी आपको पारंपरिक रामलीला अथवा रामकथा की नाट्य प्रस्तुति देखने का अवसर दशहरा पर्व के दौरान मिला होगा उस अनुभव को अपने शब्दों में लिखिए। (शब्द सीमा – 250)</p> <p>(6)सिद्ध कीजिए कि ‘बालगोबिन भगत’ पाठ सामाजिक रूढ़ियों पर प्रहार करता है। *(शब्द सीमा – 250)*</p> <p>(7)*नेताजी सुभाष चंद्र बोस* के *कृतित्व (कार्य एवं योगदान) एवं व्यक्तित्व* पर *सचित्र प्रोजेक्ट* बनाइए।</p>
<b>SANSKRIT</b>	<p>1. विषय संवर्धन पुस्तिकायां प्रदत्त गतिविधीनां पूर्तिः करणीयम् ।</p> <p>2. कला समेकित परियोजना मध्ये पंजाब प्रदेशस्य सांस्कृतिक वैशिष्ट्यम् लिखत।</p> <p>3. विन्यासस्य उपरि एकं परिशीलनम् – विषयं अधिकृत्य कला समेकित परियोजना निर्मातव्यम्।</p> <p>4.पाठ्यपुस्तके प्रथमतः पञ्चम पाठ पर्यन्तं शब्दार्थः एवं प्रश्नोत्तरानि त्रिवारं लेखनीयम्।</p>
<b>SCIENCE</b>	<p>1)Port Folio</p> <p>2)Subject Enrichment Activities: Activities of Chemical Reactions and Equations and Live processes.</p> <p>3)Art Integrated Project : Diagram based questions on Life Processes and How do organisms Reproduce? Diagram of Digestive System,Respiratory</p>

	<p>System,Heart,Nephron,Stomata,Excretory System,Female Reproductive system, Male Reproductive System, Flower.</p> <p>4)Creative learning on learning the concepts in an easier way for example Reactivity series of elements.</p> <p>5)Learning Competency based questions on Life processes and Chemical Reactions and Equations.</p>
<b>MATH</b>	<b>Attached in separate PDF file.</b>
<b>SST</b>	<p>❖ Art integrated project- under the “EK BHARAT SHRESTH BHARAT” from the paired state PUNJAB</p> <p>❖ Instruction- Choose and complete any one of these seven given topics below</p> <ul style="list-style-type: none"> <li>• Make 3D model- Gurudwara or Haveli of Punjab</li> <li>• Make 3D model of five rivers of Punjab and contribution of rivers</li> <li>• Voice of Bravery- make collage, flipbook, scrap book or album of nationalist movement in Punjab and freedom fighters of Punjab</li> <li>• Phulkari work/ art and craft/ clothing style of Punjab- make album by waste materials</li> <li>• The Golden Grain Journey- agriculture and economy of Punjab (make 3d model/album/collage/ brochure)</li> <li>• Physical features of Punjab- 3D model//album/collage/ brochure</li> <li>• Famous places of Punjab- make miniature 3D model <ul style="list-style-type: none"> <li>XV. Jallianwala bagh</li> <li>XVI. Wagah border</li> <li>XVII. Golden temple/ harmandir sahib</li> <li>XVIII. Gobindgarh fort</li> <li>XIX. Seesh mahal</li> <li>XX. Virasat-e-khalsa</li> <li>XXI. Qila Mubarak</li> </ul> </li> </ul> <p>❖ <b>Subject Enrichment project</b></p> <p>Instruction- individual work (compulsory for all)</p> <ul style="list-style-type: none"> <li>• Make a project on consumer rights</li> </ul>

	<ol style="list-style-type: none"> <li>I. Maximum 10 pages</li> <li>II. Focus on rights of consumer, consumer responsibility, Redressal mechanism, quality standard mark</li> </ol> <ul style="list-style-type: none"> <li>• Make the notes and 20 mcqs from the chapter- resources and development (geography)</li> <li>• Make the notes and 20 mcqs from the chapter- Development(economics)</li> </ul>
AI	<p><b>Part A – Communication Skills (Unit 1)</b></p> <ol style="list-style-type: none"> <li>1. Define communication.</li> <li>2. Write any two elements of communication.</li> <li>3. What is verbal communication?</li> <li>4. What is non-verbal communication?</li> <li>5. What is active listening?</li> <li>6. Explain the communication cycle.</li> <li>7. Explain any three barriers to communication.</li> <li>8. Importance of communication skills in daily life.</li> </ol> <p><b>Part B – Review of Python (Unit 1)</b></p> <ol style="list-style-type: none"> <li>1. Explain all steps of AI Project Cycle.</li> <li>2. Create a mini AI project idea on any topic: <ul style="list-style-type: none"> <li>• Problem: (e.g., Smart Attendance System)</li> <li>• Data Required</li> <li>• Steps of AI Project Cycle</li> <li>• Expected Output</li> </ul> </li> </ol>
<b>CLASS – XII</b>	

<p><b>ENGLISH</b></p>	<ol style="list-style-type: none"> <li>1) Find out rag pickers in your locality and ask a few questions to them about their background similar to the interview conducted by the author in the chapter “The Last lesson” (Also take a selfie while conversing with the rag pickers)</li> <li>2) Conduct a survey(in the neighborhood) given in the page no 11 of the text ‘Flamingo’ and submit the same.</li> <li>3) Take a printout of recent board exam and solve all the questions of section- A &amp; B and submit the answers in A4 sheets with stick &amp; file</li> <li>4) Collect the information where incidents of imposing the teaching of foreign language occurred due to war as in the cities of Alsace &amp; Lorraine and write in detail the names of cities/countries (including pictures/images) and the languages imposed over there.</li> </ol>
<p><b>HINDI</b></p>	<p>प्रश्न 1. ‘दिन जल्दी-जल्दी ढलता है’ पाठ के आधार पर समय के महत्व पर प्रकाश डालिए।  प्रश्न 2. ‘बाजार दर्शन’ पाठ के आधार पर बाजार के आकर्षण विषय पर एक अनुच्छेद लिखिए।  प्रश्न 3. ‘भक्तिन’ पाठ के आधार पर भारतीय समाज में नारियों की दशा एवं दिशा पर निबंध लिखिए।  प्रश्न 4. ‘वर्तमान समय में समाचार पत्रों की भूमिका’ का सचित्र वर्णन कीजिए।  प्रश्न 5. जनसंचार के माध्यम एवं उनके बारे में संक्षिप्त विवरण लिखिए।  प्रश्न 6. पाठ्यपुस्तक के पढ़ाए गए पाठों के प्रश्नोत्तरों की पुनरावृत्ति करें।  प्रश्न 7. निम्नलिखित में से किसी एक विषय पर लगभग 120 शब्दों में रचनात्मक लेख लिखिए</p> <p>-</p> <ol style="list-style-type: none"> <li>1. इलेक्ट्रॉनिक वाहन : समय की जरूरत</li> <li>2. शिक्षा में तकनीक का महत्त्व</li> <li>3. ऐतिहासिक धरोहर : देश की पहचान</li> </ol> <p><b>* निम्नलिखित में से किसी एक विषय (Any one Topic) पर ‘परियोजना कार्य’ (Project work) कीजिए :- (प्रोजेक्ट फाइल अलग से बनाइए)</b></p> <ol style="list-style-type: none"> <li>1. समय समायोजन का महत्त्व</li> <li>2. मीडिया की ताकत और वर्तमान भूमिका</li> <li>3. बेबी हालदार और भक्तिन</li> <li>4. विज्ञापन की दुनिया</li> <li>5. भारतीय बाज़ार का बदलता स्वरूप</li> <li>6. स्मार्ट फोन और भटकता युवा वर्ग</li> <li>7. डॉ भीमराव अम्बेडकर की कल्पना का समाज</li> <li>8. पीढ़ी अंतराल के प्रमुख कारण एवं निवारण</li> <li>9. सिन्धु घाटी सभ्यता;हमारा गौरव</li> </ol>

	<ol style="list-style-type: none"><li>10. औरतों की शिक्षा एवं उनके मानवाधिकार</li><li>11. शब्द कोश</li><li>12. विश्व भाषा के रूप में हिन्दी</li><li>13. विज्ञापन का समाज पर प्रभाव</li><li>14. शिक्षा में इंटरनेट का प्रभाव</li><li>15. भारतीय ज्ञानपीठ पुरस्कार प्राप्त हिन्दी रचनाकार</li><li>16. प्रेमचंद का व्यक्तित्व और कृतित्व</li><li>17. जनसंचार मध्यम में तकनीकी मध्यमों का योगदान</li><li>18. कोरोना काल और ऑनलाइन शिक्षा</li><li>19. नई शिक्षा नीति एक परिचय</li><li>20. समाचार पत्र समाज का दर्पण है</li></ol>
<b>MATH</b>	<b>Attached in separate PDF File</b>

H.W.

- Practice in H.W. side of physics copy
1. State & explain Gauss law of electro-stics.  
Derive  $\vec{E}$  for
    - charged straight conductor
    - charged thin sheet
    - charged spherical shell
  2. What is parallel plate capacitor. Derive Expression for
    - Capacitance air, dielectric and a dielectric slab filled
    - Energy stored in capacitor
  3. What is a dipole? Derive  $\vec{E}$  at any point on
    - axial line
    - Equatorial line
  4. Learn to draw and explain all the graphs & diagrams from Chapter 1 & 2.
  5. Revisit numericals from Examples & Exercises from Chapter 1 & 2.

<b>CHEMISTRY</b>	<p>1)Port Folio  2)Practical Work : Two Minor Experiments  Two Major Experiments  3)Creative learning material- Making concepts easy  4)Board Exam questions (FAQ) of PHYSICAL CHEMISTRY</p>
<b>BIOLOGY</b>	<p>1. Investigatory projects and their Ideas</p> <p><b><u>Chapter 1 sexual reproduction</u></b></p> <p>Very Short Answer Questions 1 Marks</p> <p>1. In a young anther, a group of compactly arranged homogenous cells was observed in the center of each microsporangium. What is the name given to these cells ?</p> <p>2. Give the scientific name of a plant that came to India as a contaminant with imported wheat and causes pollen allergy.</p> <p>3. Pollen grains of water pollinated species have special characteristics for protection from water. What is that?</p> <p>4. In the same species of Asteraceae and grasses, seeds are formed without the fusion of gametes. Mention the scientific term for such forms of reproduction.</p> <p>5. Arrange the following in the correct developmental sequence: Male gamete, Potential pollen mother cell, sporogenous tissue, Pollen grains, Microspore tetrad.</p> <p>6. If the diploid number of chromosomes in an angiospermic plant is 16. Mention the number of chromosomes in the endosperm and antipodal cell.</p> <p>7. What kind of structures are formed at the end of microsporogenesis and megasporogenesis?</p> <p>8. What is funiculus?</p> <p>9. Define parthenocarpy.</p> <p>10. Why is an apple called a false fruit? Which part of the plant forms the fruit?</p> <p>Short answer question</p> <ol style="list-style-type: none"> <li>In Angiospermic plants before the formation of microspore sporogenous tissue undergo cell division. <ol style="list-style-type: none"> <li>Name the type of cell division.</li> <li>What would be the ploidy of the cells of tetrad?</li> </ol> </li> <li>Outer envelope of pollen grain made of a highly resistant substance. What is that substance? At which particular point the substance is not present?</li> <li>Fruits generally develop from the ovary, but in few species, the thalamus</li> </ol>

contributes to fruit formation.

(a) Name the two categories of fruits

(b) Give one example of each fruit

4. Among the animals, insects, particularly bees are the dominant pollinating agents. List any four characteristic features of the insect-pollinated flower.
5. Differentiate between geitonogamy and xenogamy.

Long answer

1. GERMINATION OF POLLEN GRAINS ON STIGMA
2. Describe the post-fertilization changes taking place in a flowering plant?
3. Explain the formation of an embryo sac with diagrams.
4. How does pollination takes place in salivaria. List any four adaptations required for such type of pollination.
5. "Incompatibility is the natural barrier in the fusion of gamete". Justify this statement

## **Chapter 2 Human reproduction**

Very short

1. Why does failure of testes to descend into scrotum produce sterility?
2. Sperms have a tail whereas eggs do not. Why so?
3. Name of embryonic stage that gets implanted in the uterine wall of a human female.
4. What stimulates pituitary to release the hormone responsible for parturition? Name the hormone.
5. Write the location and function of Sertoli cells in humans.

Long question

1. Give a schematic representation of of oogenesis in humans. Mention the number of chromosomes at each stage.
2. Give a schematic representation of Spermatogenesis in humans. Mention the number of chromosomes at each stage.
3. Draw a diagrammatic sectional view of human ovary showing different stages of oogenesis alongwith corpus luteum.
4. Where is the morula formed in humans? Explain the process of its development from zygote
5. Name and explain the role of inner and middle wall of human uterus? Women are often blamed for producing female children. Consequently, they are ill-treated and ostracized. How will you address the issue scientifically?

## **Chapter 3 Human reproductive health**

1. What do you think is the significance of reproductive health in a society?
2. Suggest the aspects of reproductive health which need to be given special

	<p>attention in the present scenario.</p> <ol style="list-style-type: none"> <li>3. Is sex education necessary in schools? Why?</li> <li>4. Do you think that reproductive health in our country has improved in the past 50 years? If yes, mention some such areas of improvement.</li> <li>5. What are the suggested reasons for population explosion?</li> <li>6. Is the use of contraceptives justified? Give reasons.</li> <li>7. Removal of gonads cannot be considered as a contraceptive option. Why?</li> <li>8. Amniocentesis for sex determination is banned in our country. Is this ban necessary? Comment.</li> <li>9. Suggest some methods to assist infertile couples to have children.</li> <li>10. What are the measures one has to take to prevent from contracting STDs?</li> <li>11. State True/False with explanation       <ol style="list-style-type: none"> <li>(a) Abortions could happen spontaneously too. (True/False)</li> <li>(b) Infertility is defined as the inability to produce a viable offspring and is always due to abnormalities/defects in the female partner. (True/False)</li> <li>(c) Complete lactation could help as a natural method of contraception. (True/False)</li> <li>(d) Creating awareness about sex related aspects is an effective method to improve reproductive health of the people. (True/False)</li> </ol> </li> <li>12. Correct the following statements :       <ol style="list-style-type: none"> <li>(a) Surgical methods of contraception prevent gamete formation.</li> <li>(b) All sexually transmitted diseases are completely curable.</li> <li>(c) Oral pills are very popular contraceptives among the rural women.</li> <li>(d) In E. T. techniques, embryos are always transferred into the uterus.</li> </ol> </li> </ol> <p>Read Unit 1 and Unit 2 in class 12 textbook.</p>
<b>CS</b>	<ol style="list-style-type: none"> <li>1. What are mutable and immutable data types in Python? Give two examples each.</li> <li>2. What are default arguments in functions? Illustrate with a small program.</li> <li>3. Predict the output:       <ol style="list-style-type: none"> <li>A)           <pre>x = 10  def fun():     x = 20     print(x)  fun() print(x)</pre> </li> <li>B)           <pre>def display(a, b=5):     print(a + b)  display(3) display(3, 7)</pre> </li> </ol> </li> </ol>

```
C)
def change(lst):
    lst.append(100)

l = [1, 2, 3]
change(l)
print(l)
```

4. Write a function to find the factorial of a number
5. Write a function to check whether a number is prime or not.
6. Write a function to find the sum of digits of a number.
7. Write a function to find the largest element in a list.
8. Write a Python program using functions to:
  - Accept a list of numbers
  - Return the average of even numbers only
9. Write a menu-driven program using functions to:
  - a. Add two numbers
  - b. Subtract two numbers
  - c. Multiply two numbers
  - d. Exit

AI

## **Part A – Communication Skills (Unit 1)**

1. What is communication?
2. Write any two elements of communication.
3. What is feedback in communication?
4. Write two barriers to effective communication.
5. What is active listening?
6. Define body language.
7. What is formal and informal communication?
8. Explain the communication cycle with a diagram.
9. Differentiate between verbal and non-verbal communication.
10. Explain different types of communication barriers.

## **Part B – Revisiting of Python (Unit 1)**

1. What is Pandas?
2. Define DataFrame.
3. What is the difference between Series and DataFrame?

**Name Marks Grade**

4. Write a Python program to create the following DataFrame:

A	90	A
B	75	B
C	60	C

Write statements to

- Display first 2 rows
- Display column names
- Display shape of DataFrame