



## **GRADE 'X' HOLIDAYS HOMEWORK**



### **Instructions:**

Welcome to your holiday homework plan! This plan is designed to keep you engaged and learning during the break while exploring various aspects of English literature and language. Here are the instructions and guidelines for completing your holidays homework:

- Review the weekly tasks and instructions provided. Make what is expected of you for each assignment.
- Keep track of deadlines, materials needed for each task, and any additional resources provided. Organization will help you manage your time effectively and produce high-quality work.
- Approach each task with enthusiasm and creativity. Take the opportunity to explore new ideas, express yourself through writing, and analyze literature from different perspectives.
- If you have any questions or need clarification on any aspect of the homework plan, don't hesitate to reach out to your teacher or classmates for assistance.
- Take time to reflect on your progress and the skills you've developed throughout the holiday homework period. Consider what you've learned and how you can apply it in the future.
- Ensure that your final presentation is well-organized, clear, and reflects the effort you've put into each task. Pay attention to details such as spelling, grammar, and presentation format.
- Importantly, enjoy the process of learning and exploring new topics in English literature and language. Use this opportunity to deepen your understanding and appreciation of the subject.
- Creativity Counts: Feel free to use colors, illustrations, and decorative elements to make your assignments visually appealing.
- Presentation Matters: Pay attention to neatness and organization when completing your tasks. Present your work with pride and attention to detail.

- Reflect and Share: Take time to reflect on your experiences and share your creations with family, friends, or classmates. Discuss what you've learned and how you've grown through the process.

## **Week 1: Lexi Canvas**

### **Task 1: Word Collage**

Instructions: Create a word collage using A4 size paper. Cut out words and phrases from newspapers, magazines, or online articles that resonate with you. Arrange them on the paper to form a collage that reflects your thoughts, feelings, and aspirations.

### **Task 2: Vocabulary Flipbook**

Instructions: Design a vocabulary flipbook on an A4 size paper. Write down ten new words you've learned recently, along with their definitions and usage examples. Illustrate each word to help reinforce your understanding and memory.

## **Week 2: Literary Landscapes**

### **Task 1: Character Sketches**

Instructions: Choose a character from a book you've read recently. Draw a detailed character sketch on an A4 size paper, including physical traits, personality traits, and significant character development throughout the story.

### **Task 2: Cultural Cookbook**

Instructions: Design a cultural cookbook on an A4 size paper. Choose recipes from your family's culinary traditions or explore dishes from different cultures. Write down the recipes along with personal anecdotes or memories associated with each dish.

## **Week 3: Writing Wonders (A4 size single-line paper)**

1. You are concerned about the increasing misuse of artificial intelligence tools by students during examinations and assignments. Write a letter to the Editor of a national daily expressing your views on how educational institutions can maintain academic honesty while responsibly integrating technology into learning.
2. The historical monuments and heritage sites in your city are gradually losing their cultural significance due to poor maintenance, overcrowding, and irresponsible tourist behaviour. Write a letter to the Commissioner of the Municipal Corporation suggesting effective measures for preserving these heritage sites and spreading public awareness.
3. Your school recently organised an interschool cultural fest, but several participating schools faced serious issues related to transportation, accommodation, and event management. Write a letter to the Principal highlighting the shortcomings and suggesting practical improvements for future events.
4. Many students in your locality are facing mental stress and academic pressure due to excessive competition, unrealistic expectations, and lack of counselling facilities. Write a letter to the Director of Education requesting the introduction of regular mental wellness programmes and professional counselling sessions in schools.

## **Week 4: Language and Linguistics**

### **Day 1-3:**

- Explore the evolution of the English language by researching its history and key milestones.
- Create a timeline or infographic illustrating the development of English from Old

English to Modern English.

**Instructions:**

- ✓ **Research key events and developments in the history of English language, such as the Norman Conquest and the Great Vowel Shift.**
- ✓ **Think about how language has spreaded over time and the factors that have influenced its development.**

**Day 4-6:**

- Conduct interviews with family members or community members to explore regional dialects and linguistic diversity.
- Compile your findings into a written report or multimedia presentation.

**Instructions:**

- ✓ **Interview family members or community members who speak different dialects or languages.**
- ✓ **Ask about their language backgrounds, regional accents, and any linguistic traditions or customs they may be familiar with.**

**Subject-Verb Agreement (A4 size single-line sheet)**

**A. Find the Error (15 Sentences)**

1. Neither the teachers nor the principal of the newly established residential school near the outskirts of the city were aware of the complaints submitted by the parents regarding the poor maintenance of the hostel facilities.
2. One of the students who regularly participate in various national-level competitions have recently received a prestigious award for excellence in creative writing and public speaking.
3. The collection of rare historical manuscripts preserved carefully in the old wooden cupboard near the library windows were damaged due to continuous exposure to moisture during the rainy season.
4. Every student who attended the educational excursion to the historical monuments and museums in Jaipur were instructed to prepare a detailed project report based on their observations and experiences.
5. The quality of the handmade paintings displayed during the annual art exhibition organised by the senior students are exceptionally impressive and deserves appreciation from the visitors.
6. A series of motivational workshops conducted by internationally renowned speakers have encouraged many students to develop confidence and leadership qualities in their academic journey.
7. The captain of the basketball team, along with the players who represented the school at the state championship, were invited to attend a felicitation ceremony organised by the district administration.
8. Neither of the suggestions proposed by the committee members during the lengthy discussion about the improvement of school discipline have been accepted by the management authorities.
9. The number of students participating in extracurricular activities like music, drama, debate, and sports have increased considerably after the introduction of new facilities in the school campus.
10. Every teacher and every student present in the seminar hall during the awareness programme on environmental conservation were requested to maintain silence throughout the presentation.

11. The furniture placed in the newly renovated classrooms near the senior wing have been specially designed to provide comfort and better posture support to the students.
12. Many a participant who attended the international youth conference on climate change have expressed concern about the increasing pollution levels in metropolitan cities.
13. Either the school authorities or the event coordinators responsible for managing the cultural programme has forgotten to inform the parents about the sudden change in the schedule.
14. The poet, as well as his close companions who travelled extensively across different countries to promote literature and art, were honoured during the grand cultural festival organised by the university.
15. The list of candidates selected for the interschool science exhibition competitions in different categories have been displayed outside the principal's office for further verification and registration.

### **B. Fill in the Blanks with Correct Verb Forms (15 Sentences)**

1. Neither the members of the organising committee nor the principal of the institution \_\_\_\_\_ willing to postpone the annual function despite the unfavourable weather conditions predicted by the authorities.
2. The number of students applying for admission in reputed residential schools across the country \_\_\_\_\_ increased significantly over the last few academic sessions.
3. Each of the beautifully decorated classrooms prepared for the orientation programme \_\_\_\_\_ equipped with smart boards, projectors, and modern seating arrangements for the guests.
4. The committee appointed by the education department to investigate the matter of declining academic performance \_\_\_\_\_ currently preparing a comprehensive report for submission.
5. A large number of tourists from different parts of the world \_\_\_\_\_ visiting the historical monuments and heritage sites located in Rajasthan during the winter season.
6. Every member of the music and dramatics club \_\_\_\_\_ expected to participate actively in the rehearsals scheduled before the annual cultural fest.
7. The news regarding the cancellation of the interschool sports championship due to heavy rainfall \_\_\_\_\_ shocked not only the participants but also their parents and coaches.
8. One of the most inspiring speeches ever delivered during the school leadership summit \_\_\_\_\_ presented by the former head boy of our institution.
9. Neither of the recommendations suggested by the experienced faculty members during the staff meeting \_\_\_\_\_ practical enough to solve the issue completely.
10. The pair of shoes that my elder brother purchased from the newly opened shopping complex near the market \_\_\_\_\_ extremely comfortable and suitable for long-distance walking.
11. Bread and butter, which \_\_\_\_\_ considered a common breakfast in many households, often provides sufficient energy for the beginning of the day.
12. The quality of the products manufactured by that well-known company \_\_\_\_\_ deteriorated considerably after the management changed its production policies.

13. Many students from our school who have participated in the national-level science exhibition \_\_\_\_\_ preparing innovative working models for the upcoming competition.
14. Either the principal or the coordinators responsible for managing the orientation programme \_\_\_\_\_ going to address the parents and students during the introductory session.
15. The poet along with his admirers and fellow writers from different literary organisations \_\_\_\_\_ attending the international literature conference organised in the capital city this week.

### Art-Integration Project Topics:

Roll No.	Project Topic
1	<b>Author Exploration Portfolio</b> - Prepare a detailed portfolio on any famous author including biography, famous works, writing style, quotes, illustrations, and personal reflection.
2	<b>Fantasy Storybook Creation</b> - Create your own fantasy storybook with cover page, characters, plot, illustrations, maps, and moral lesson.
3	<b>English Literature Timeline Project</b> - Design a detailed timeline showing the major periods of English literature with writers, genres, and artistic visuals.
4	<b>Poetry Illustration Booklet</b> - Write and illustrate different types of poems such as haiku, acrostic, limerick, free verse, and nature poetry creatively.
5	<b>Literary Genre Exploration File</b> - Explain genres like mystery, fantasy, horror, adventure, comedy, and science fiction with examples and artwork.
6	<b>Character Creation Project</b> - Create your own fictional character with personality chart, backstory, costume sketches, dialogues, and character journey.
7	<b>Creative Vocabulary Scrapbook</b> - Prepare a scrapbook of advanced vocabulary words with meanings, illustrations, synonyms, antonyms, and sentence usage.
8	<b>Travel Through Imaginary Worlds</b> - Design and describe imaginary literary worlds with maps, climate, culture, traditions, and illustrations.
9	<b>The Power of Poetry Project</b> - Explore themes like love, nature, hope, courage, and dreams through self-written poems and artistic presentation.
10	<b>Comic Story Creation</b> - Create an original comic story with panels, dialogues, characters, conflict, climax, and illustrations.
11	<b>Inspirational Quotes Art File</b> - Collect, decorate, and explain literary quotes with artistic typography and visual interpretation.
12	<b>Literary Newspaper Project</b> - Create a newspaper featuring fictional interviews, literary news, book reviews, advertisements, and editorial section.
13	<b>English Around the World Project</b> - Explore how English language differs across countries through accents, spellings, slang, and culture.
14	<b>Book Cover Designing Portfolio</b> - Design creative covers for different imaginary books belonging to various genres.
15	<b>Emotion Through Literature Project</b> - Represent emotions such as fear,

Roll No.	Project Topic
	happiness, loneliness, anger, and hope through poetry, colours, and artwork.
16	<b>Creative Diary of an Imaginary Character</b> - Write diary entries from the perspective of a fictional character facing adventures and challenges.
17	<b>Mythology and Folktales Project</b> - Explore folktales and myths from different cultures with summaries and illustrations.
18	<b>Literary Symbols and Meanings File</b> - Research common literary symbols and present them with explanations and creative sketches.
19	<b>Short Story Anthology</b> - Write a collection of short stories belonging to different genres with illustrations and titles.
20	<b>Nature in Literature Project</b> - Explore how seasons, forests, rivers, rain, and sky are represented in poetry and literature.
21	<b>Creative Advertisement Portfolio</b> - Design literary-themed advertisements for books, libraries, reading cafés, or storytelling events.
22	<b>Language and Dialect Exploration Project</b> - Research different dialects, idioms, expressions, and regional variations of English language.
23	<b>Literary Festival Planning File</b> - Create a complete plan for an imaginary literary festival including invitations, schedule, posters, and activities.
24	<b>Hero's Journey Illustration Project</b> - Explain the journey of a hero through stages using examples and creative illustrations.
25	<b>Storytelling Through Art Project</b> - Tell a complete story only through pictures, captions, and visual sequences.
26	<b>Creative Magazine Publication</b> - Prepare a mini literary magazine including poems, stories, puzzles, interviews, and artwork.
27	<b>Poetic Nature Scrapbook</b> - Create a scrapbook inspired by flowers, stars, oceans, birds, and landscapes through poetry and sketches.
28	<b>Fantasy Creature Encyclopedia</b> - Invent and describe imaginary creatures with appearance, powers, habitat, and stories.
29	<b>Art of Calligraphy and Quotes</b> - Create decorative calligraphy pages using famous literary lines and self-written thoughts.
30	<b>Visual Representation of Dreams and Aspirations</b> - Express dreams, ambitions, and imagination through literary writing and artwork.
31	<b>Mystery and Detective Project</b> - Create a detective case file with clues, suspects, mystery plot, and investigation notes.
32	<b>Historical Literature Exploration</b> - Explore literature from ancient, medieval, and modern periods with visuals and explanations.
33	<b>Poetry and Music Fusion Project</b> - Combine poetry with musical themes, rhythms, instruments, and lyrical illustrations.
34	<b>Creative Story Map Project</b> - Create detailed maps showing locations, journeys, and important events from an original story.
35	<b>World of Idioms and Proverbs</b> - Illustrate idioms and proverbs creatively with meanings and real-life applications.

Roll No.	Project Topic
36	<b>Imagination and Reality Project</b> - Compare imagination and reality through stories, sketches, quotes, and creative writing.
37	<b>Literary Art Gallery File</b> - Create a mini art gallery on sheets featuring poetry, sketches, quotes, character art, and symbolic illustrations.

### ग्रीष्मकालीन अवकाशीय गृहकार्य

#### सामान्य निर्देश:-

- सभी प्रश्नों के उत्तर अपनी कक्षा उत्तर पुस्तिका में लिखिए।
- सतत अध्ययनरत रहें एवं नई चीज़ें सीखने का प्रयास करें।
- अवकाश का सदुपयोग करें।

प्रश्न-1 निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर दिए गए प्रश्नों के उत्तर दीजिए।

आदमी की पहचान उसकी भाषा से होती है और भाषा संस्कार से बनती है। जिसके जैसे संस्कार होंगे, वैसी उसकी भाषा होगी। जब कोई आदमी भाषा बोलता है, तो साथ में उसके संस्कार भी बोलते हैं। यही कारण है कि भाषा शिक्षक का दायित्व बहुत गुरुतर और चुनौतीपूर्ण है। परंपरागत रूप में शिक्षक की भूमिका इन तीन कौशलों बोलना, पढ़ना और लिखना तक सीमित कर दी गई है। केवल यांत्रिक कौशल किसी जीती-जागती भाषा का उदाहरण नहीं हो सकते हैं। सोचना और महसूस करना दो ऐसे कारक हैं, जिनमें भाषा सही आकार पाती है। इनके बिना भाषा, भाषा नहीं है, इनके बिना भाषा संस्कार नहीं बन सकती, इनके बिना भाषा युगों-युगों का लंबा सफर तय नहीं कर सकती, इनके बिना कोई भाषा किसी देश या समाज की धड़कन नहीं बन सकती। केवल संप्रेषण ही भाषा नहीं है। दर्द और मुस्कान के बिना कोई भाषा जीवंत नहीं हो सकती। भाषा हमारे समाज के निर्माण, विकास, अस्मिता, सामाजिक व सांस्कृतिक पहचान का भी महत्वपूर्ण साधन है। भाषा के बिना मनुष्य पूर्ण नहीं है। भाषा में ही हमारे भाव राज्य, संस्कार, प्रांतीयता झलकती है। इस झलक का संबंध व्यक्ति की मानवीय संवेदना और मानसिकता से भी होता है। जिस व्यक्ति के जीवन का उद्देश्य और मानसिकता जिस स्तर की होगी, उसकी भाषा के शब्द और मुख्यार्थ भी उसी स्तर के होंगे। साहित्यकार ऐसी भाषा को आधार बनाते हैं, जो उनके पाठकों एवं श्रोताओं की संवेदना के साथ एकाकार करने में समर्थ हो।

(1) आदमी की पहचान उसकी भाषा से होती है, क्योंकि-

1

- (A) मनुष्य की पूर्णता भाषा द्वारा ही संभव है।  
 (B) व्यक्ति के मनोभाव भाषा से ही व्यक्त होते हैं।  
 (C) भाषा का प्रचार और विकास कोई रोक नहीं सकता।  
 (D) दर्द और मुस्कान के बिना भाषा जीवित नहीं हो सकती।

(2) निम्नलिखित कथन (A) तथा कारण (R) को ध्यानपूर्वक पढ़िए। उसके बाद दिए गए विकल्पों में से कोई एक सही विकल्प चुनकर लिखिए।

1

कथन (A) जब कोई आदमी बोलता है, तो साथ में उसके संस्कार भी बोलते हैं।

कारण (R) भाषा शिक्षक का दायित्व बहुत चुनौतीपूर्ण होता है, क्योंकि उसे कौशलों का विकास करना होता है।

- (A) कथन (A) तथा कारण (R) दोनों गलत है।  
 (B) कथन (A) गलत है, लेकिन कारण (R) सही है।  
 (C) कारण (A) सही है लेकिन कारण (R) उसकी गलत व्याख्या करता है।  
 (D) कथन (A) तथा कारण (R) दोनों सही है तथा कारण (R) कथन (A) को सही व्याख्या करता है।

(3) गद्यांश में साहित्यकार द्वारा किए गए कार्य का उल्लेख इनमें से कौन-से विकल्प से ज्ञात होता है-

1

- (A) साहित्य समाज का दर्पण है।  
 (B) साहित्यकार साहित्य सृजन में व्यस्त रहता है।  
 (C) साहित्यकार सामाजिक व सांस्कृतिक पहचान बनाता है।

(D) साहित्यकार जन सामान्य की अस्मिता का परिचायक होता है।

(4) भाषा के महत्त्व को अपने शब्दों में लिखिए।

(5) भाषा के तीन कौशलों का नाम बताते हुए उनकी भूमिका स्पष्ट कीजिए।

2

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प्रश्न-3 निम्नलिखित वाक्यों के रचना की दृष्टि से भेद लिखिए।

1. माँ ने कहा कि शाम को जल्दी लौट आना।
2. जब मैं घर पहुँचा तब वर्षा शुरू हो चुकी थी।
3. जैसे ही बादल धिरे वैसे ही बिजली चमकने लगी।
4. जब-जब धरती पर अधर्म बढ़ा है, तब-तब ईश्वर धरती पर अवतरित हुए हैं।
5. जहाँ-जहाँ सिंचाई की व्यवस्था है, वहाँ-वहाँ फसलें खूब पैदा होती हैं।
6. आप नाटक देखने जाएँगे या सिनेमा।
7. मरीज फल खा लेगा अथवा खिचड़ी से काम चलेगा।
8. मदन को बस नहीं मिली इसलिए वह समय पर घर न आ सका।
9. वह दिन भर काम करता रहा परंतु पूरा न हो सका।
10. पोत नष्ट हो गया, पर यात्रियों को बचा लिया गया।
11. इस समय सर्दी है, इसलिए कोट पहन लो।
12. मैं उसे चुप रहने को कहता रहा, पर उसने एक नहीं सुनी।
13. काम पूरा कर डालो, नहीं तो जुर्माना होगा।
14. वह विद्वान् बनना चाहता था, इसलिए बड़े-बड़े ग्रंथ पढ़ता था।
15. वक्त निकल जाता है, पर बात याद रह जाती है।
16. यदि परिश्रम करोगे तो, उत्तीर्ण हो जाओगे।
17. मैं जानता हूँ कि तुम्हारे अक्षर अच्छे नहीं बनते।
18. यह वही बच्चा है जिसको बैल ने सींग मारा था।
19. जो गरीबों की सहायता करते हैं वे धर्मात्मा होते हैं।
20. क्योंकि वह संतुष्ट था इसलिए उसने कभी शिकायत नहीं की।
21. जब छह बजे तब लौट आना।
22. मुझे यह अच्छा नहीं लगता कि आहिस्ता बोला जाए।
23. यह सब तब हुआ जब मैं अनुपस्थिति था।
24. जब मैं मरूँ तो मेरा संस्कार गंगाघाट पर किया जाए।
25. यद्यपि इतनी गर्मी है तथापि वह भट्टी के पास काम करता है।
26. जब तक मैं न आऊँ तब तक यहीं बैठे रहना।
27. कृपया बात दें कि गाड़ी किस समय आती है।
28. जब अतिथि विदा हुए तब हम सोने चले गए।
29. जल्दी तैयार हो जाओ, नहीं तो बस चली जाएगी।
30. वह घर पर मिलेगा, तो मैं अवश्य जा मिलूँगा।

प्रश्न 4. निम्नलिखित वाक्यों निर्देशानुसार परिवर्तित कीजिए।

1. वे कोच की सीख के अनुसार ही खेलते हैं। (मिश्र वाक्य)
2. मोहन हिंदी पढ़ने शास्त्री जी के यहाँ गया है। (संयुक्त वाक्य)
3. मेहनत करने वाले विद्यार्थी, वह अवश्य सफल होते हैं। (मिश्र वाक्य)
4. घायल सैनिक उठा। शस्त्र से लड़ने लगा। (संयुक्त वाक्य)
5. वहाँ एक गाँव था। वह गाँव छोटा-सा था। उसके चारों ओर जंगल थे। उस गाँव में आदिवासियों के बीस परिवार रहते थे। (संयुक्त वाक्य)
6. चाय तैयार हुई और उसने प्यालो में भर दी। (मिश्र वाक्य)
7. हरिहर काका ने ठाकुरबाड़ी के महल, पुजारी और साधुओं की काली करतूतों का पर्दाफाश करना शुरू किया। (मिश्र वाक्य)
8. वह छः मंजिली इमारत थी जिस पर एक वर्ण कुटी बनी थी। (सरल वाक्य)
9. जो रुपए दादा भेजते हैं उसे हम 20- 22 तारीख तक खर्च कर डालते हैं। (सरल वाक्य)
10. वह हरदम किताब खोलकर अध्ययन करते रहते थे। (संयुक्त वाक्य)

11. मैं सफल हुआ और कक्षा में प्रथम स्थान पर आया। (सरल वाक्य)  
 12. एक बार बिल्ली ने उचक्कर दो में से एक अंडा तोड़ दिया। (मिश्र वाक्य)  
 13. बरसात होने पर सूरज छिप जाता है। (मिश्र वाक्य)  
 14. वह छः मंजिल की इमारत थी जिस पर एक पर्ण कुटी बनी थी। (सरल वाक्य)  
 15. ततारा बहुत संवेदनशील था। वह समूचे द्वीपवासियों की सेवा करना अपना परम कर्तव्य समझता था। (संयुक्त वाक्य)  
 16. एक लोक कथा है जो आज भी दोहराई जाती है। (सरल वाक्य)  
 17. वह समझदार था एक- एक निकोबार भारी उससे प्रेम करते थे। (मिश्र वाक्य)  
 18. चींटियों ने उनके लिए ईश्वर से दुआ की ओर सुलेमान अपनी मंजिल की ओर बढ़ गए। (मिश्र वाक्य)

प्रश्न- 5 निम्नलिखित विषयों पर दिए गए संकेत बिंदुओं के आधार पर लगभग 100 से 120 शब्दों में अनुच्छेद लिखिए।

(क) 'जैसी संगति बैठिए, तैसी ही फल दीन'

संकेत बिंदु: 1. संगति का महत्त्व 2. संगति का सकारात्मक प्रभाव 3. संगति का नकारात्मक प्रभाव

(ख) 'नई शिक्षा नीति के प्रमुख लाभ'

- संकेत बिंदु: 1. नई शिक्षा नीति 2020 का संक्षिप्त परिचय और इसकी आवश्यकता  
 2. समग्र शिक्षा पर बल: (ज्ञान के साथ नैतिकता, सर्वांगीण विकास)  
 3. मल्टीपल एंट्री और एग्जिट सुविधा: (पढ़ाई के बीच में डिग्री/डिप्लोमा)  
 4. राष्ट्रीय शिक्षा ढांचा: (समान गुणवत्ता की शिक्षा पूरे देश में)  
 5. मूल भाषा में शिक्षा: (प्राथमिक स्तर पर मातृभाषा/स्थानीय भाषा में पढ़ाई को बढ़ावा)  
 6. तकनीकी और व्यावसायिक शिक्षा का विस्तार: (डिजिटल लर्निंग और कौशल विकास कार्यक्रमों पर ध्यान)  
 7. नई शिक्षा नीति से अपेक्षित सकारात्मक बदलाव और भविष्य की संभावनाएँ

प्रश्न-6. (क) आपका विद्यालय ग्रीष्मकालीन अवकाश में गंगानगर से मंसूरी की यात्रा का आयोजन कर रहा है। इस यात्रा से सम्बंधित 70 से 80 शब्दों में सूचना लिखिए।

(ख) विद्यालय पत्रिका के लिए रचनाएँ आमंत्रित करते हुए 70 से 80 शब्दों एक सूचना लिखिए।

प्रश्न-7. (क) आज़ाद कोचिंग सेंटर द्वारा प्रतियोगियों को आकर्षित करने के लिए एक विज्ञापन 70 से 80 शब्दों में तैयार कीजिए।

(ख) राजस्थान सरकार की ओर से राजस्थान को हरा-भरा एवं स्वच्छ बनाने हेतु 70 से 80 शब्दों में एक विज्ञापन तैयार कीजिए।

(ग) 'बालिका शिक्षा पर' 70 से 80 शब्दों में एक विज्ञापन तैयार कीजिए।

प्रश्न 8. (क) अंग्रेज़ी और गणित का पाठ्यक्रम पूरा नहीं हो पाया है। पाठ्यक्रम पूरा न होने के कारणों का उल्लेख करते हुए अंग्रेज़ी और गणित विषयों की अतिरिक्त कक्षाएँ आयोजित करवाने हेतु अपने विद्यालय के प्रधानाचार्य को प्रार्थना-पत्र लिखिए।

(ख) आप 29/5 संस्कार अपार्टमेंट, सेक्टर-14 रोहिणी, दिल्ली के निवासी हैं। आप चाहते हैं कि लोग दीपावली में पटाखों का कम से कम प्रयोग करें। पटाखों से होने वाली हानियों से अवगत कराते हुए नवभारत टाइम्स के संपादक को पत्र लिखिए।

(ग) जमाखोरी का सबसे बड़ा नुकसान यह है कि इससे वस्तुओं के मूल्य आसमान छूने लगते हैं। जमाखोरी की दुष्प्रवृत्ति पर चिंता प्रकट करते हुए किसी समाचार पत्र के संपादक को पत्र लिखिए।

प्रश्न 9. (क) आपको चेक बुक की आवश्यकता है। नई चेक बुक प्राप्त करने के लिए स्टेट बैंक मालवीय नगर, दिल्ली शाखा के प्रबंधक को [statbank123@gmail.com](mailto:statbank123@gmail.com) पर ई-मेल लिखिए।

(ख) अपने क्षेत्र में एक पार्क विकसित करने के लिए नगर निगम अधिकारी को [Nagarnigamganganagar00@gmail.com](mailto:Nagarnigamganganagar00@gmail.com) पर ई-मेल लिखिए।

(ग) आधार कार्ड न मिलने की शिकायत करते हुए सम्बंधित अधिकारी को [rajasthan123@gmail.com](mailto:rajasthan123@gmail.com) पर ई-मेल लिखिए।

प्रश्न-10. (क) 'मेहनत की कमाई' विषय पर 100 शब्दों में लघुकथा लिखिए।

(ख) दिए गए संकेत बिन्दुओं के आधार पर 100 शब्दों में लघुकथा लिखिए।

( बारिश का अभाव , एक भेड़िया , चरागाह में भेड़ों का झुंड , सारा पानी भी पी जाना , भेड़ें वहाँ से भाग गईं )

(ग) 'ममता की छाँव ' विषय पर 100 शब्दों में लघुकथा लिखिए।

प्रश्न 11. राजस्थान के नाटक एवम् साहित्य का आसाम के नाटकों एवम् साहित्य के साथ तुलनात्मक अध्ययन करते हुए पी.पी.टी. बनाइए।

2. आपके विद्यालय में वृक्षारोपण का कार्यक्रम होना है। नोटिस बोर्ड पर लगाने के लिए इस विषय से संबंधित सूचना तैयार कीजिए।

अ ब स विद्यालय , क ख ग नगर

सूचना

14 अप्रैल 2021

वृक्षारोपण

हमारे विद्यालय के ईको क्लब द्वारा आगामी सोमवार को प्रातः 9 बजे वृक्षारोपण का कार्यक्रम आयोजित किया जा रहा है जिसके माध्यम से हम पर्यावरण को बचाने में अपना - अपना योगदान देंगे। सभी छात्र - छात्राओं से अनुरोध है कि अपनी धरती को बचाने तथा पर्यावरण को स्वच्छ करने में अपना योगदान देने हेतु कार्यक्रम में भाग लें।

दिनांक : 19/04/2021

समय : प्रातः 9:00 बजे

स्थान : विद्यालय का बड़ा मैदान

क ख ग

सचिव

ईको क्लब

..... संस्था का नाम .....

सूचना

दिनांक:

..... सूचना का विषय .....

सूचना को लिखें.....

सूचना देने वाले व्यक्ति के हस्ताक्षर, उम्दा नाम

सूचना देने वाले व्यक्ति का पद

चेक बुक खो जाने की सूचना देते हुए अपने बैंक के प्रबंधक को ई-मेल भेजिए

दिनांक :

प्रेषक का ई-मेल: abc.hij@gmail.com

प्राप्त कर्ता / स्वीकर्ता का ई-मेल : manager123@gmail.com

प्रतिलिपि (CC): suja@gamil.com

गुप्तलिपि (bcc): regionalmanager@abkbank.com

विषय : चेक बुक खो जाने की सूचना हेतु

महोदय / महोदया,

दिन की शुभकामनाएँ !

सधिनय निवेदन है कि मेरा आपके बैंक में बचत खाता है। मेरे बचत खाते का नंबर 38534207 है। मैंने पिछले महीने 25 पन्नों की एक चेक बुक आपसे ली थी जो कहीं खो गई है। अतः आप से अनुरोध है कि उस चेक बुक का भुगतान तुरंत रोक दिया जाए और मुझे एक नई चेक बुक भी भिजवा देने की कृपा करें।

आप की अति कृपा होगी

धन्यवाद

भवदीय

क ख ग( प्रेषक का नाम )

## A. काव्य आधारित परियोजनाएँ (Poetry-Based Projects)

क्रमांक परियोजना विषय

गतिविधि

1	"1. राजस्थान और नागालैंड' (पी पी टी )	(परंपरा vs आधुनिकता) निम्नलिखित बिंदुओं के आधार पर परियोजना कार्य बनाइए- 1. परिचय 2. उदाहरण (परंपरा vs आधुनिकता) 3. निष्कर्ष (आपकी राय) 4. हस्तलिखित + सजावट के साथ
2	कबीर के दोहों की कैलिग्राफी	सुंदर हस्तलेखन प्रदर्शनी तैयार करना
3	'बड़े भाई साहब' कहानी का स्टोरीबोर्ड डिजाइन	घटनाओं का चित्रात्मक क्रम
4	"बड़े भाई साहब" का नाट्य मंचन	कहानी का अभिनय
5	"मनुष्यता" कविता पोस्टर	कविता के संदेश पर पोस्टर बनाना
6	राजस्थान एवम् नागालैंड' के नाटक साहित्य का तुलनात्मक अध्ययन   (स्क्रेब बुक )	राजस्थान एवम् नागालैंड' के नाटक साहित्य का तुलनात्मक अध्ययन   (स्क्रेब बुक )
7	राष्ट्रभक्ति कविताओं का कोलाज या (पी पी टी )	देशभक्ति चित्र एवं पंक्तियों का संयोजन
8	प्रकृति वर्णन पर वॉटरकलर पेंटिंग	प्रकृति दृश्य चित्रित करना
9	आपकी पुस्तक की कोई भी कविता का कॉमिक स्ट्रिप रूपांतरण	कविता को कॉमिक रूप देना
10	"डायरी का एक पन्ना" कहानी पर स्क्रेपबुक	चित्र एवं सामग्री संग्रह
11	'ईदगाह' कहानी का स्टोरीबोर्ड डिजाइन	घटनाओं का चित्रात्मक क्रम
12	'ईदगाह' कहानी के संदेश पर पोस्टर	नैतिक संदेश का पोस्टर
13	समाचार रिपोर्ट रूपांतरण	कहानी को समाचार शैली में लिखना
14	'ईदगाह' कहानी पर डिजिटल कॉमिक	डिजिटल माध्यम में कॉमिक निर्माण
15	'बड़े भाई साहब' कहानी पर डिजिटल कॉमिक	डिजिटल माध्यम में कॉमिक निर्माण
16	कहानी के संदेश पर पोस्टर	नैतिक संदेश का पोस्टर
17	समाचार रिपोर्ट रूपांतरण	कहानी को समाचार शैली में लिखना
18	पात्रों का इंटरव्यू अभिनय	पात्रों के संवाद प्रस्तुत करना
19	कहानी का वैकल्पिक अंत	नए अंत का चित्रण
20	समास पर फ्लोचार्ट	समास के प्रकार दर्शाना
21	'राजस्थान और नागालैंड' खान-पान और पहनावे का तुलनात्मक अध्ययन   (चार्ट पेपर)	'राजस्थान और नागालैंड' खान-पान और पहनावे का तुलनात्मक अध्ययन   (चार्ट पेपर)
22	एक तुलनात्मक तालिका बनाएँ जिसमें इन त्यौहारों को मनाने के तरीके और उनके पीछे की कहानियों का वर्णन हो।	एक तुलनात्मक तालिका बनाएँ जिसमें इन त्यौहारों को मनाने के तरीके और उनके पीछे की कहानियों का वर्णन हो।
23		
24	एक बड़े चार्ट पेपर के बीच में रेखा खींचकर एक तरफ राजस्थान और दूसरी तरफ नागालैंड की कला दिखाएं।	एक बड़े चार्ट पेपर के बीच में रेखा खींचकर एक तरफ राजस्थान और दूसरी तरफ नागालैंड की कला दिखाएं।
25	लोककथाओं का चित्रकथा रूप	चित्रों द्वारा कहानी प्रस्तुति
26	समास पर फ्लोचार्ट	समास के प्रकार दर्शाना
27	मुहावरों की चित्र प्रदर्शनी	मुहावरों को चित्रों से समझाना
28	लोकोक्तियों का पोस्टर	कहावतों का सजावटी प्रदर्शन
29	क्षेत्रीय वेशभूषा मंचन	पारंपरिक पोशाक के साथ अभिनय

30	नागालैंड के लोकगीत और हिंदी साहित्य संबंध	उदाहरण सहित चार्ट बनाना
31	वृक्षारोपण विषय पर कविता लेखन एवं पोस्टर	वृक्षारोपण विषय पर कविता लेखन एवं पोस्टर
32	हिंदी और लोकसंगीत प्रोजेक्ट	संगीत और साहित्य संबंध
33	क्षेत्रीय वेशभूषा मंचन	पारंपरिक पोशाक के साथ अभिनय
34	स्वच्छ भारत अभियान पर कविता लेखन	स्वच्छ भारत अभियान पर कविता लेखन
35	वाक्य भेद रोल प्ले	विभिन्न वाक्यों का अभिनय
36	लोककथाओं का चित्रकथा रूप	चित्रों द्वारा कहानी प्रस्तुति
37	राज्यों की बोलियों का चार्ट	विभिन्न भाषाई रूप दिखाना

## B. कहानी आधारित परियोजनाएँ

क्रमांक	परियोजना विषय	गतिविधि
1	"बड़े भाई साहब" का नाट्य मंचन	कहानी का अभिनय
2	"डायरी का एक पन्ना" स्कैपबुक	चित्र एवं सामग्री संग्रह
3	कहानी पात्रों के मुखौटे	पात्रों के मास्क बनाना
4	कहानी का स्टोरीबोर्ड डिजाइन	घटनाओं का चित्रात्मक क्रम
5	"ईदगाह" मिट्टी कला मॉडल	मेले/चिमटे का मॉडल बनाना
6	कहानी पर डिजिटल कॉमिक	डिजिटल माध्यम में कॉमिक निर्माण
7	कहानी के संदेश पर पोस्टर	नैतिक संदेश का पोस्टर
8	समाचार रिपोर्ट रूपांतरण	कहानी को समाचार शैली में लिखना
9	पात्रों का इंटरव्यू अभिनय	पात्रों के संवाद प्रस्तुत करना
10	कहानी का वैकल्पिक अंत	नए अंत का चित्रण

कक्षा - ९

## C. व्याकरण आधारित परियोजनाएँ

क्रमांक	परियोजना विषय	गतिविधि
1	समास पर फ्लोचार्ट	समास के प्रकार दर्शाना
2	मुहावरों की चित्र प्रदर्शनी	मुहावरों को चित्रों से समझाना
3	लोकोक्तियों का पोस्टर	कहावतों का सजावटी प्रदर्शन
4	शब्द भेद इन्फोग्राफिक	शब्दों का वर्गीकरण चार्ट
5	अलंकारों का दृश्यात्मक चार्ट	उदाहरण सहित चार्ट बनाना
6	पर्यायवाची माइंडमैप	रंगीन शब्द नेटवर्क
7	विलोम शब्द फ्लिपबुक	विपरीत शब्दों की पुस्तक

क्रमांक	परियोजना विषय	गतिविधि
8	संधि-विच्छेद पेपर मॉडल	कागज से संरचना बनाना
9	विराम चिह्न कॉमिक	विराम चिह्नों का प्रयोग दिखाना
10	वाक्य भेद रोल प्ले	विभिन्न वाक्यों का अभिनय

#### D. लोककला एवं संस्कृति आधारित परियोजनाएँ

क्रमांक	परियोजना विषय	गतिविधि
1	राजस्थान लोककला व कविता	लोककला के साथ कविता प्रस्तुति
2	वारली कला में कहावतें	वारली शैली में चित्रांकन
3	फुलकारी कला द्वारा दोहे	पंजाबी शैली में सजावट
4	पिथोरा कला में वर्णमाला	गुजराती लोककला प्रयोग
5	उत्तराखंड लोकगीत संबंध	लोकगीत और साहित्य अध्ययन
6	मधुबनी कला से कविता चित्रण	कविता आधारित चित्रकारी
7	लोककथाओं का चित्रकथा रूप	चित्रों द्वारा कहानी प्रस्तुति
8	राज्यों की बोलियों का चार्ट	विभिन्न भाषाई रूप दिखाना
9	हिंदी और लोकसंगीत प्रोजेक्ट	संगीत और साहित्य संबंध
10	क्षेत्रीय वेशभूषा मंचन	पारंपरिक पोशाक के साथ अभिनय

#### E. पर्यावरण एवं सामाजिक विषय आधारित परियोजनाएँ

क्रमांक	परियोजना विषय	गतिविधि
1	जल संरक्षण स्लोगन कला	जागरूकता स्लोगन बनाना
2	स्वच्छता अभियान नुककड़ नाटक	स्वच्छता संदेश का मंचन
3	वृक्षारोपण कविता एवं पोस्टर	पर्यावरण संरक्षण संदेश
4	प्लास्टिक मुक्त भारत कोलाज	चित्र एवं संदेश संग्रह
5	महिला सशक्तिकरण नाट्य प्रस्तुति	सामाजिक संदेश अभिनय
6	बाल श्रम चित्र प्रदर्शनी	समस्या का चित्रण
7	पर्यावरण बचाओ पोस्टर	रैली हेतु पोस्टर निर्माण
8	सड़क सुरक्षा जिंगल	सुरक्षा संदेश गीत
9	डिजिटल इंडिया कॉमिक	डिजिटल भारत का चित्रण
10	संविधान मूल्यों पर कला	लोकतांत्रिक मूल्यों की प्रस्तुति

#### F. रचनात्मक एवं डिजिटल परियोजनाएँ

क्रमांक	परियोजना विषय	गतिविधि
1	हिंदी कविता एनीमेशन वीडियो	कविता का वीडियो निर्माण
2	साहित्यकारों की डिजिटल टाइमलाइन लेखकों का कालक्रम	
3	कहानी का पॉडकास्ट	श्रव्य प्रस्तुति
4	हिंदी समाचार बुलेटिन अभिनय	समाचार प्रस्तुति

## क्रमांक परियोजना विषय

- 5 पुस्तक समीक्षा वीडियो ब्लॉग
- 6 QR कोड आधारित परियोजना
- 7 AI/Canva पोस्टर डिजाइन
- 8 हिंदी ई-पत्रिका निर्माण
- 9 मुहावरों का रील वीडियो
- 10 इंटरैक्टिव प्रदर्शनी

## गतिविधि

- पुस्तक विश्लेषण
- डिजिटल सामग्री लिंक
- तकनीकी पोस्टर निर्माण
- डिजिटल पत्रिका बनाना
- छोटे वीडियो निर्माण
- डिजिटल सहभागिता प्रस्तुति

## CBSE Perspective से Best Themes

### क्रमांक थीम

- 1 भारतीय संस्कृति
- 2 लोककला समन्वय
- 3 पर्यावरण जागरूकता
- 4 नाटक एवं अभिनय
- 5 डिजिटल प्रस्तुति
- 6 Ek Bharat Shreshtha Bharat Integration
- 7 Interdisciplinary Learning

## Recommended Indian Art Forms to Integrate

### क्रमांक भारतीय कला रूप

- 1 मधुबनी कला
- 2 वारली कला
- 3 गोंड कला
- 4 फुलकारी
- 5 पिथोरा कला
- 6 कठपुतली कला
- 7 लोकनृत्य
- 8 लोकगीत
- 9 पेपर क्लिंग
- 10 कैलिग्राफी
- 11 पोस्टर मेकिंग

ESTD. 2019

## Subject -Mathematics

### General Instructions:

1. Complete the holiday homework **neatly** in your **Maths class notebook**.
  2. Use **sharp pencils** for diagrams and **blue/black pen** for writing (if allowed).
  3. Maintain **proper presentation** – headings, margins, and neat handwriting are important.
  4. Write the **question first**, then solve it.
  5. Submit the work on the **first day after holidays** without fail.
  6. Revise the concepts regularly for better understanding.
- 

1. The zeros of the polynomial  $x^2 - 2x - 3$  are  
(a) - 3, 1      (b) 3, - 1      (c) 3, 1      (d) - 3, - 1
2. The sum and the product of the zeros of a quadratic polynomial are 3 and - 10 respectively. The quadratic polynomial is  
(a)  $x^2 - 3x + 10$     (b)  $x^2 - 3x - 10$     (c)  $x^2 + 3x - 10$     (d)  $x^2 + 3x + 10$
3. The zeros of the quadratic polynomial  $x^2 + 88x + 125$  are  
(a) both negative      (b) both positive    (c) both equal      (d) one positive and one negative
4. If  $\alpha$  and  $\beta$  are the zeroes of the polynomial  $2x^2 + 5x + 1$ , then the value of  $\alpha + \beta + \alpha\beta$  is  
(a) - 2      (b) 3      (c) - 1      (d) 1
5. The number polynomials having zeroes as - 2 and 5 is  
(a) 1      (b) 2      (c) 3      (d) more than 3
6. A quadratic equation  $ax^2 + bx + c = 0$ , has coincident roots, if  
(a)  $b^2 - ac = 0$       (b)  $b^2 - 4ac$       (c)  $b^2 - 4ac$       (d)  $b^2 - 4ac = 0$
7. The roots of the equation  $2x^2 - 6x + 3 = 0$  are  
(a) real, unequal and irrational      (b) real and equal  
(c) real, unequal and rational      (d) imaginary
8. If the product of the roots of the equation  $x^2 - 3x + k = 10$  is - 2 then the value of k is  
(a) - 8      (b) 12      (c) - 2      (d) 8
9. The product of two successive integral multiples of 5 is 1050. Then the numbers are  
(a) 25 and 35      (b) 25 and 30      (c) 30 and 35      (d) 35 and 40  
(c)  $x^2 - 4x - 3\sqrt{2} = 0$       (d)  $x^2 - 4x + 3\sqrt{2} = 0$
10. The solution to a pair of linear equations is the point of intersection of their:  
(a) Graphs      (b) Parallel lines  
(c) Perpendicular lines      (d) None of the above
11. The system of equations:  $2x - 3y = 7$  and  $4x - 6y = 14$  has:

- (a) A unique solution                      (b) No solution  
 (c) Infinitely many solutions            (d) None of the above

12. Two lines are perpendicular if the product of their slopes is:

- (a) -1                                          (b) 0                                          (c) 1                                          (d) Undefined

13. If a pair of linear equations has no solution, the lines are:

- (a) Intersecting                      (b) Coincident                      (c) Parallel                      (d) None of the above

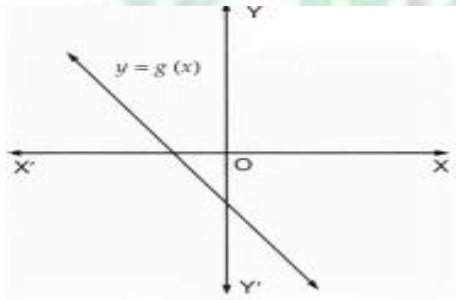
14. The solution of the pair of equations  $2x + 3y = 8$  and  $4x + 6y = 16$  is:

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

15. In a pair of linear equations, if the lines are coincident, they have:

- (a) No solution                      (b) Infinite solutions  
 (c) One solution                      (d) Two solutions

16. Identify that the graph corresponds to a linear polynomial or a quadratic polynomial?



17. If the sum of the zeros of the quadratic polynomial  $f(t) = kt^2 + 2t + 3k$  is equal to their product, find the value of  $k$ .

18. If  $\alpha$  and  $\beta$  are the zeroes of the quadratic polynomial  $x^2 - 5x + 6$ , find the value of  $\alpha^2 + \beta^2 - \alpha\beta$

19. Find the zeroes of the polynomial  $5t^2 + 12t + 7$  by factorization method and verify the relation between the zero and the coefficient of the polynomial.

20. If  $\alpha$  and  $\beta$  are the zeros of the polynomial  $f(x) = x^2 - 5x + k$  such that  $\alpha - \beta = 1$ , find the value of  $k$ .

21. If  $\alpha$  and  $\beta$  are zeroes of the quadratic polynomial  $4x^2 + 4x + 1$ , then form a quadratic polynomial whose zeroes are  $2\alpha$  and  $2\beta$ .

22. If  $\alpha$  and  $\beta$  are the zeros of the quadratic polynomial  $f(x) = ax^2 + bx + c$ , then evaluate:

$$a \left( \frac{\alpha^2}{\beta} + \frac{\beta^2}{\alpha} \right) + b \left( \frac{\alpha}{\beta} + \frac{\beta}{\alpha} \right)$$

**DIRECTION: In given questions a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct option**

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

23. **Assertion (A):** For no value of  $n$ , where  $n$  is a natural number, the number  $6^n$  ends with the digit zero.

**Reason (R):** For a number to end with digit zero, its prime factors should have 2 and 5.

24. **Assertion (A):** The HCF of two numbers is 16 and their product is 3072. Then their LCM = 162.

**Reason (R):** If  $a, b$  are two positive integers, then  $\text{HCF}(a, b) \times \text{LCM}(a, b) = a \times b$

25. **Assertion (A):** For all real values of  $c$ , the pair of equation  $x-2y=8$  and  $5x-10y=c$  have a unique solution.

**Reason (R):** Two lines are given to be parallel. The equation of one of the lines is  $4x+3y=14$ ,  $12x+9y=5$

26. **Assertion (A):** A line drawn parallel to any one side of a triangle intersects the other two sides proportionally.

**Reason (R):** Parallel lines cannot be drawn to any one side of a triangle.

27. **Assertion (A):** the discriminant of the quadratic equation  $2x^2 - 4x + 3 = 0$ , is -8 and hence the nature of

its roots is no real roots .

**Reason (R):** if  $b^2-4ac < 0$  the nature of root is no real roots.

28. Find the values of  $p$  and  $q$  if the lines  $px+qy=7$  and  $2x-3y=4$  are parallel.

29. Find the values of  $k$  for which the following equation has equal roots:  $(k - 12)x^2 + 2(k - 12)x + 2 = 0$

30. If  $(-5)$  is a root of the quadratic equation  $2x^2 + px + 15 = 0$  and the quadratic equation  $p(x^2 + x) + k = 0$  has equal roots, then find the values of  $p$  and  $k$ .

31. In a formula racing competition, the time taken by two racing cars A and B to complete one round of the track is 30 minutes and  $p$  minutes respectively. If the cars meet again at the starting point for the first time after 90 minutes and the  $\text{HCF}(30, p) = 15$ , then the value of  $p$  is

32. Aakriti decided to distribute milk in an orphanage on her birthday. The supplier brought two milk containers which contain 398 litres and 436 litres of milk. The milk is to be transferred to other containers so that 7 litres and 11 litres of milk is left in both the containers respectively. What will be the maximum capacity of the measuring drum?

33. In a school there are two sections, namely A and B, of class X. There are 30 students in section A and 28 students in section B. Find the minimum number of books required for their class library so that they can be distributed equally among students of section A or section B

34. Three bells ring at an interval of 4, 7 and 14 minutes. All three bells rang together at 6am, at what time will the three bells ring together next?

35. The sum of the digits of a two-digit number is 8. If the tens digit is multiplied by 3 and the ones digit by 5, the resulting number is 29 more than the original number. Find the original number using a pair of linear equations.

36. The perimeter of a rectangle is 50 cm. Its length is 15 cm more than its width. Find the dimensions of the rectangle using a pair of linear equations.

37. A sum of money is divided between A and B in the ratio 3:5. If A's share is Rs. 1800, find the total sum of money and B's share using a pair of linear equations

38. For which values of  $a$  and  $b$ , will the following pair of linear equations have infinitely many solutions?  $x + 2y = 1$   $(a - b)x + (a + b)y = a + b - 2$

39. For which value(s) of  $\lambda$ , do the pair of linear equations  $\lambda x + y = \lambda^2$  and  $x + \lambda y = 1$  have (i) no solution? (ii) infinitely many solutions? (iii) a unique solution?
40. There are some students in the two examination halls A and B. To make the number of students equal in each hall, 10 students are sent from A to B. But if 20 students are sent from B to A, the number of students in A becomes double the number of students in B. Find the number of students in the two halls.
41. Jamila sold a table and a chair for Rs 1050, thereby making a profit of 10% on the table and 25% on the chair. If she had taken a profit of 25% on the table and 10% on the chair she would have got Rs 1065. Find the cost price of each.
42. It can take 12 hours to fill a swimming pool using two pipes. If the pipe of larger diameter is used for 4 hours and the pipe of smaller diameter for 9 hours, only half the pool can be filled. How long would it take for each pipe to fill the pool separately?
43. A train travels at a certain average speed for a distance of 63 km and then travels a distance of 72 km at an average speed of 6 km/h more than its original speed. If it takes 3 hours to complete the total journey, what is its original average speed?
44. At present Asha's age (in years) is 2 more than the square of her daughter Nisha's age. When Nisha grows to her mother's present age, Asha's age would be one year less than 10 times the present age of Nisha. Find the present ages of both Asha and Nisha.
45. At  $t$  minutes past 2 pm, the time needed by the minutes hand of a clock to show 3 pm was found to be 3 minutes less than  $\frac{t^2}{4}$  minutes. Find  $t$ .
46. The sum of the first three terms of an AP is 33. If the product of the first and the third term exceeds the second term by 29, find the AP.
47. If the 9th term of an AP is zero, prove that its 29th term is twice its 19th term.
48. If the  $n$ th terms of the two APs: 9, 7, 5, ... and 24, 21, 18, ... are the same, find the value of  $n$ . Also find that term.
49. How many numbers lie between 10 and 300, which when divided by 4 leave a remainder 3?
50. The sum of the first  $n$  terms of an AP whose first term is 8 and the common difference is 20 is equal to the sum of first  $2n$  terms of another AP whose first term is  $-30$  and the common difference is 8. Find  $n$ .
51. Show that the sum of an AP whose first term is  $a$ , the second term  $b$  and the last term  $c$ , is equal to 
$$\frac{(a + c)(b + c - 2a)}{2(b - a)}$$
52. The eighth term of an AP is half its second term and the eleventh term exceeds one third of its fourth term by 1. Find the 15th term.

## Art Integration Project Report

Gr. 10

R.N	Topic Name of Project
1	Explore how symmetry is used in skyscrapers and city buildings to create balanced and attractive designs.
2	Study the geometric patterns and mathematical designs used in mosque architecture.
3	Investigate the use of geometry and symmetry in ancient temple architecture.
4	Examine the use of angles, curves, and arches in cathedral architecture and their importance in design.
5	Explore the geometric shapes and mathematical structure used in suspension bridge construction.
6	Study how mathematical concepts and geometry are used in modern building designs.
7	Investigate fractal geometry and repeating patterns used in building facades and structures.
8	Explore the use of sacred geometric shapes and patterns in religious architecture.
9	Analyze the symmetry and geometric beauty found in Art Deco style buildings.
10	Study the application of the golden ratio in architecture and how it creates aesthetic balance.
11	Explore spirals and symmetrical patterns used in lighthouse architecture and design.
12	Study tessellations and repeating mathematical patterns used in mosaic tile artwork.
13	Investigate how geometry is used in the planning and design of gardens and landscapes.
14	Examine the symmetry and geometric planning used in castles and medieval forts.
15	Explore simple geometric shapes and minimalist concepts used in modern architecture.
16	Analyze the geometric patterns and structures found in modern city skylines.
17	Study the mathematical engineering and geometric design behind famous monumental structures.
18	Explore the use of geometry and mathematical patterns in traditional house designs.
19	Examine how moving and flexible architectural designs use geometry and spatial mathematics.

R.N	Topic Name of Project
20	Investigate geometric abstraction and mathematical art forms used in architecture.
21	Study tessellation and repeating geometric patterns used in architectural designs.
22	Explore the use of conic sections such as circles, ellipses, and parabolas in building structures.
23	Analyze geometric patterns and mathematical creativity used in street art and wall murals.
24	Investigate the intricate geometric patterns and symmetry used in Islamic architecture.
25	Study the role of geometry and acoustics in the design of concert halls and music spaces.
26	Explore the use of angular geometry and shapes in modern housing and residential design.
27	Investigate computer-generated geometric designs and patterns used in modern architecture.
28	Analyze the geometric layout and space planning used in museum architecture.
29	Study the geometric principles and structural strength of geodesic dome designs.
30	Explore the use of symmetry, geometry, and luxury patterns in mansion architecture.
31	Examine the role of angular geometry and decorative geometric designs in buildings.
32	Study geometric abstraction and fragmented shapes used in Cubist architectural designs.
33	Explore symmetry, balance, and spatial arrangement used in interior design.
34	Analyze geometric planning and layout used in market structures and shopping areas.
35	Study the geometric design and mathematical engineering used in sports stadiums.
36	Explore geometric motifs and symmetrical patterns used in architectural entrance designs.

## SUBJECT- Science

**Student Name: -**

**Roll No.: -**

### General instructions:

- Complete all the work in the respective portion of the class work notebook.
- Maintain cleanliness and avoid spelling mistakes.
- Write in good handwriting.
- Complete the work neatly with proper numbering.
- Use your own creativity to make it look attractive.

### Creative

1. Prepare a **dictionary** of at least 40 words, including the scientific terms and difficult words from the chapter '**Chemical reactions and equations**', '**Acids, Bases and Salts**'.
2. **pH Detectives:** Create your own homemade pH indicator using red cabbage juice. Test common household substances (like lemon juice, soap solution, and baking soda solution) to determine their pH level. Design a colour chart to represent the pH scale and use it to classify your test subjects as acidic, basic, or neutral.
3. **The Acid-Base Challenge:** Conduct a neutralisation reaction. For example, mix a measured amount of vinegar (acid) with baking soda (base) and observe the reaction. Track the changes in temperature and gas evolution. Calculate the amount of base needed to neutralise a specific amount of acid.
4. **The Salty Story:** Research the different types of salts and their importance in everyday life. Create an informative infographic or presentation detailing the sources, uses, and potential health effects of various salts (e.g., table salt, sodium bicarbonate, calcium chloride).

### Riddles

1. A few friends are enjoying their sea voyage in a boat full of apples. On the way, they feel hungry and decide to eat the apples. Together, they eat two dozen apples. When they have eaten the apples, will there be any change in the water level?
2. How can you throw a ball as hard as you can and have it come back to you, even if it does not hit anything, there is nothing attached to it, and no one else catches and throws it?

3. Many have heard it, but nobody has ever seen it. It will not speak until spoken to. What is it?
4. What is green but not a leaf: copies others but not a monkey? What sleeps through the day and cries through the night? The more it cries, the more it creates light.

## Chemistry

### Reasoning Questions

1. Why do we need to balance chemical equations?
2. What would happen if we don't balance chemical equations?
3. Why is it important to identify the type of chemical reaction?
4. How can you determine if a chemical reaction is exothermic or endothermic?
5. What is the significance of oxidation numbers in chemical reactions?
6. Why does a chemical reaction occur? Explain with an example.
7. How can you identify if a chemical reaction has taken place? Give examples.
8. What is the role of catalysts in chemical reactions? Provide an example.
9. Why do some chemical reactions require heat or light to proceed? Explain.
10. How does the concentration of reactants affect the rate of a chemical reaction?

### Assertion-Reason Questions

1. Assertion: Rusting of iron is a chemical reaction.  
Reason: Rusting of iron involves a change in colour and the formation of a new substance.
2. Assertion: Burning of magnesium ribbon is an exothermic reaction.  
Reason: Burning of magnesium ribbon releases heat and light energy.

### Critical Thinking Questions

1. A substance X reacts with oxygen to form a compound Y. Identify X and Y if the reaction is highly exothermic.
2. A metal M reacts with dilute hydrochloric acid to form a salt and hydrogen gas. Identify M if the reaction is highly reactive.
3. A metal 'M' reacts with oxygen to form a compound 'N'. If 'N' is soluble in water, identify 'M' and 'N' and write the balanced chemical equation.
4. A substance 'X' is used as a preservative in pickles. When 'X' reacts with sodium hydroxide, it forms a salt and water. Identify 'X' and write the balanced chemical equation.
5. A chemical reaction occurs between two substances, 'A' and 'B', to form a product 'C'. If 'C' is a gas and the reaction is reversible, identify 'A' and 'B' and write the balanced chemical equation.
6. A metal 'P' reacts with dilute hydrochloric acid to form a salt and hydrogen gas. If the reaction is highly reactive, identify 'P' and write the balanced chemical equation.
7. A substance 'Y' reacts with oxygen to form a compound 'Z'. If 'Z' is a major contributor to acid rain, identify 'Y' and 'Z' and write the balanced chemical equation.

## Physics

### 1. Define the following terms:

- Principal focus of a concave mirror and a convex mirror
  - Centre of curvature
  - Radius of curvature
  - Magnification of spherical mirror
2. Draw ray diagrams for a concave mirror and a convex mirror for all possible positions of objects.

### Critical Thinking Questions

1. A concave mirror is placed facing the sun. Where would you place a paper to burn it using the mirror? Explain your reasoning.
2. Why are convex mirrors used as rear-view mirrors in vehicles? Explain the advantages.
3. An object is placed between the focal point and the pole of a concave mirror. Describe the nature, position, and size of the image formed.
4. What happens to the image formed by a convex mirror when the object is moved closer to the mirror? Explain.
5. A dentist uses a concave mirror to examine a patient's teeth. Why is a concave mirror used, and what type of image is formed?
6. What would happen if a concave mirror is used as a rear-view mirror in a vehicle? Explain the advantages and disadvantages.
7. A mirror forms a virtual, erect, and diminished image of an object. Identify the type of mirror and explain its characteristics.

### Scenario-Based Questions

1. A student is using a concave mirror to focus sunlight onto a small area. What would happen if they moved the mirror slightly away from the area? Explain.
2. An object is placed in front of a convex mirror. Describe how the image would change if the object were moved further away from the mirror.

### Problem-Solving Questions

1. An object is placed 20 cm in front of a concave mirror with a focal length of 15 cm. Determine the position, nature, and size of the image formed.
2. A convex mirror has a focal length of 10 cm. An object is placed 20 cm in front of the mirror. Determine the position and nature of the image formed.

### Analytical Questions

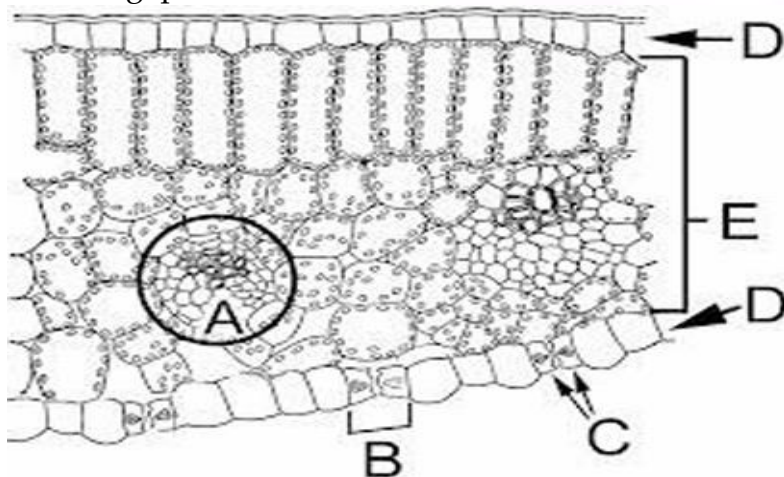
1. Compare and contrast the images formed by concave and convex mirrors.
2. How does the focal length of a mirror affect the image formed? Explain with examples.

## Biology

### Answer the following questions

**Q1.** What are the various types of nutrition? Describe Holozoic nutrition in Amoeba with the help of well labelled diagram.

**Q2.** Given below is the diagram of a cross section of a dicot leaf. Observe it and answer the following questions.



- i) Label the parts marked as A, B, C, D and E.
- ii) What is the role of A, B, C, D and E?
- iii) On which surface of the leaf exchange of gases take place during photosynthesis? Why?
- iv) The rate of photosynthesis is higher near the upper surface of the leaf. Give a reason.
- v) What are the factors that influence the rate of photosynthesis?

vi) The leaves of a plant were covered with aluminium foil; how would it affect the physiology of the plant?

**Q3.** Explain the role of the following in the process of nutrition in human beings

- a) Tongue  
d) Liver

- b) Saliva  
e) Pancreas

- c) Gastric juice  
f) Microvilli

**Q4.** Design an experiment to show that CO<sub>2</sub> is necessary for photosynthesis.

**Q5.** Compare aerobic and anaerobic respiration.

**Q6.** Draw a flow chart to show various pathways of glucose during respiration. Which pathway produces more energy and why?

**Q7.** Mention the respiratory organs of the following organisms – Fish, Earthworm, Cockroach, Frog and Amoeba.

**Q8.** Describe the process of respiration in humans with the help of a suitable diagram. And state the role of alveoli in the exchange of gases.

**Q9.** (a) Write the name and one function of a respiratory pigment found in human beings.

(b) Why do lungs always contain a residual volume of air?

(c) Why is ATP known as the energy currency of living beings?

**Q10.** Give reasons :

(a) During a breathing cycle, the lungs always contain a residual volume of air.

(b) As compared to oxygen, carbon dioxide is mostly transported in dissolved form in our blood.

**Q11.** a.) Comment on the fate of pyruvate in anaerobic conditions

b.) Comment on the fate of pyruvate in aerobic conditions

c.) conversion of glucose to pyruvate occurs in \_\_\_\_\_ and the process does not use \_\_\_\_\_.

**Q12.** In the given image, both tubes contain lime water

a.) Air is being added through a syringe

b.) Air is being exhaled into the tube.

Give a scientific explanation of your observations in both tubes.

**Q13.**(a) Draw a well-labelled diagram of the human digestive system.

(b) Arrange the following parts in ascending order on the basis of entry into the digestive tract.

Ingestion, egestion, passage of food from pharynx to stomach, action of salivary amylase, absorption of water, absorption of nutrients.

**Q14.** Answer the following questions

(a) What comprises the vascular bundle?

(b) State the functions of the vascular bundle.

(c) State the importance of the upper epidermis.

(d) What do we call the waxy layer found on the surface of a leaf, and how is it helpful for the plants?

**Q15.** (a) What is the function of stomata, guard cells and chloroplasts?

(b) Under which condition do stomata open and close?

(c) How is the functioning of stomata regulated?

(d) Why are stomata green in colour?

**Activity Work-**

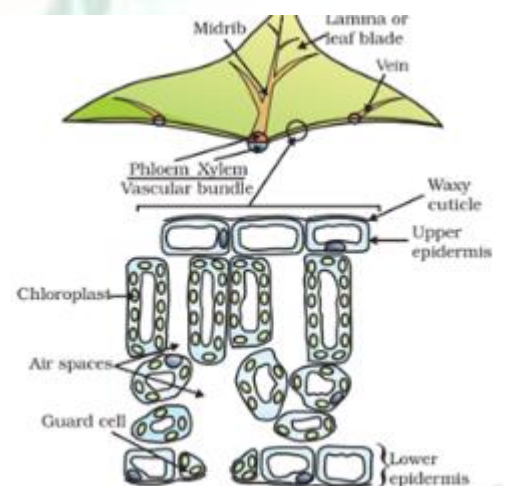
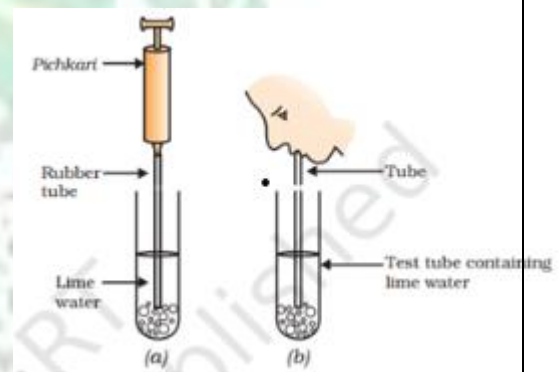
(1)

**Activity 1: Yeast Fermentation to Observe Energy from Food (Nutrition Focus)**

**(b) Quiz Game: Create flashcards or a quiz on nutrient functions.**

**(c) Hydroponic setup at home.**

- Cut a plastic bottle in half.
- Invert the top half (like a funnel) and place it inside the bottom half.
- Thread a cotton wick through the bottle neck into the bottom reservoir.
- Add sponge or cotton balls in the top half to hold the seedling.
- Fill the bottom half with water mixed with liquid fertiliser.



- Place seeds or seedlings in the sponge and let the wick deliver nutrients.

## Art Integration Project Topics

ROLL NO.	ART INTEGRATION PROJECT
1	Write a poem on an A3 sheet (paste on cardboard) using metaphors and similes to describe the various chemical reactions and reactivity series.
2	<b>Project: Photosynthesis Poster.</b> Design a creative poster showing the process of photosynthesis with diagrams, flowcharts, and colour coding.
3	<b>Project: Human Digestive System Collage.</b> Make a collage using magazine cutouts, drawings, or digital art to represent organs and their functions.
4	<b>Project: Respiratory System Model.</b> Build a working lung model using balloons, straws, and bottles to demonstrate inhalation and exhalation.
5	<b>Project: Plant Respiratory Chart.</b> Create a detailed chart of different plant parts involved in respiration.
6	<b>Project: DNA Structure Craft.</b> Construct a DNA double helix using beads, wires, or colored paper strips.
7	<b>Chemical Reaction Sculptures:</b> Create a 3D sculpture that represents a chemical reaction. Use different materials like clay or wire to depict the reactants and products involved.
8	<b>Project: Waste Management &amp; Recycling in Biology.</b> Create posters or models showing how biodegradable and non-biodegradable waste affects ecosystems.
9	<b>Project: Flower structure model.</b> Create a 3D model of a flower (LS) using clay, cardboard, or recycled materials. Label the parts artistically.
10	<b>Project: Human Nervous System Sketchbook.</b> Prepare a sketchbook with detailed hand-drawn diagrams of neurons and reflex arcs.
11	Reflection of Light Through Mirror Art
12	Refraction Using Glass Painting Concepts
13	Human Eye and Defects via 3D Model Art
14	Power of Lens Through Infographic Design
15	Electric Circuits Using LED Art Models
16	Ohm's Law Through Creative Graph Art
17	Resistance and Resistivity via Craft Models
18	Magnetic Field Lines Through Iron Filing Art
19	Electromagnetism via Sculpture Models
20	Electric Motor Working Through Animation Flipbook
21	Domestic Electric Circuits via House Model
22	Heating Effect of Current via Artistic Demonstration
23	Renewable Energy Sources Through Poster Campaign
24	Solar Energy Working via Mini Artistic Setup
25	Environmental Impact of Electricity Use via Collage
26	<b>Interactive Quiz on Balancing Equations:</b> Develop a quiz using online platforms like Kahoot! or Quizizz to test your understanding of balancing chemical equations. Include questions with different reaction types (combination, decomposition, etc.) for a well-rounded assessment.
27	<b>Animation of a Chemical Reaction:</b> Utilize animation software like Blender or Scratch to create a short animation depicting the process of a chemical reaction. Animate the movement of particles (reactants and products) and highlight the changes in their arrangements.

28	<b>Reflective Photography Project:</b> Capture a series of photographs that showcase the phenomenon of reflection in everyday life (e.g., reflections in water, mirrors, glass windows). Play with angles and perspectives to create visually interesting compositions.
29	<b>Acid-Base Tie-Dye Experiment:</b> Explore the concept of pH indicators through a tie-dye experiment. Use different solutions (acidic, basic, neutral) to create patterns on fabric and observe the color changes.
30	<b>Project:</b> <i>Human Circulatory System Infographic</i> , Design an infographic with artistic arrows, colours, and flow diagrams showing blood circulation.
31	<b>Interactive Simulation of Reflection:</b> Explore online simulations or apps to investigate different aspects of reflection, like the formation of virtual images and the behaviour of light rays at various angles.
32	Music Integrated Activity: Create a sing-song method for the reactivity series of various metals.
33	Interactive Simulation of Chemical Reactions: Explore online simulations like those on PhET Interactive Simulations to visualise the process of chemical reactions and balancing equations.
34	<b>Game or Quiz -</b> Design a <i>board game or quiz</i> that tests your classmates' knowledge of <b>Light- Reflection and Refraction</b> , including the characteristics of the image formed by mirrors, ray diagrams, and uses of mirrors.
35	<b>Virtual Lab:</b> Use online simulation tools to explore the behaviour of particles in different states of matter. Websites like PhET Interactive Simulations offer simulations.
36	<b>Project:</b> <i>Leaf Structure Model</i> . Create a 3D model of a leaf (cross-section) using clay, cardboard, or recycled materials. Label organelles artistically.

### Class 10 Holiday Homework

Dear Students,

As part of your **Computer Practical Work**, you are required to prepare a **Python Practical File** during the holidays.

📁 The practical file must be **strictly handwritten** in your practical notebook.

📁 Ensure that:

- Your handwriting is **neat, clear, and well-presented**
- Proper **headings and margins** are maintained
- The work is **systematic and well-organized**
- It should be done in **Practical file (Only)**

📁 This practical file will be considered for your **internal assessment**, so complete it sincerely and carefully.

## Class 10 Python Program List

1. Program to print "Welcome to School"
2. Program to input name and display greeting
3. Program to find sum of two numbers
4. Program to check whether a number is even or odd
5. Program to find largest of three numbers
6. Program to swap two numbers
7. Program to check whether a number is positive, negative or zero.
8. Program to calculate grade based on marks.
9. Program to create a simple calculator using if-elif.
10. Program to print numbers from 1 to N.
11. Program to find sum of first N natural numbers.
12. Program to reverse a number.
13. Program to find largest element in a list.
14. Program to find sum of elements in a list.
15. Program to remove duplicates from a list.
16. Program to calculate area of circle.
17. Program to calculate area of triangle.
18. Program to calculate area of rectangle.

19. Program to calculate area of square.
20. Program to calculate perimeter of square.

## Social Science

- Make front page for your scrapbook stating BIRLA PUBLIC SCHOOL GANGANAGAR, followed vertically by SUMMER HOLIDAY HOMEWORK, SESSION-2026-27, SUBJECT -SOCIAL SCIENCE, YOUR NAME AND ROLL NO, CLASS, SUBJECT, TEACHER NAME.
- Write in good handwriting.
- Complete the work neatly with proper numbering.
- Use your own creativity to make it look attractive.
- **Do Worksheet Question on Class Work Notebook**
- **Share the Question paper Word and PDF file to your respective Subject teacher through mail.**
- **Mail Id: [bablu090222@atlas.betpilani.org](mailto:bablu090222@atlas.betpilani.org)( Mr. Bablu), [suraj090215@bpsg.edu.in](mailto:suraj090215@bpsg.edu.in) (Mr. Suraj Sharma)**

### 1. Art Integration Project (Nagaland & Rajasthan)

❖ Objective:

To understand cultural, geographical, economic, and social connections between Nagaland and Rajasthan.

Instructions:

- Prepare a handwritten project (8-10 pages).
- Include maps, pictures, charts, and creative art work.
- Follow proper format: *Cover Page* → *Index* → *Content* → *Conclusion* → *Bibliography*.

Roll Number-wise Topic Distribution:( Each student must make an individual Project.)

Roll No.	Topic
1	<p>“Hello Nagaland!” – Learn &amp; Speak Basic Naga Language Students learn greetings and self-introduction in a basic Naga language (Ao, Angami or Nagamese) and compare it with Rajasthani greetings. Students will:</p> <ul style="list-style-type: none"> <li>• Introduce themselves in Nagamese</li> <li>• Create bilingual flashcards</li> <li>• Perform roleplay conversations</li> </ul> <p>Real-Life Learning: Communication skills, cultural respect, language diversity.</p>
2	<p>“My School vs Their School” Compare education systems, school life, uniforms, transport and activities in Nagaland and Rajasthan. Activity:</p> <ul style="list-style-type: none"> <li>• Digital Survey classmates</li> <li>• Make comparison charts ,Suggest improvements for Indian schools</li> </ul> <p>Economy Link: Education and literacy affect national development.</p>
3	<p>“Digital Rajasthan vs Digital Nagaland” Research how technology is changing villages, schools and businesses. Include:</p> <ul style="list-style-type: none"> <li>• Internet access</li> <li>• Smart classrooms</li> <li>• Online shopping</li> <li>• Digital payments</li> </ul> <p>Student Outcome: Understanding Digital India and modern economy.</p>

4	<p>“Future Career Opportunities in Both States”  Students explore jobs and industries.  Compare:</p> <ul style="list-style-type: none"> <li>• Tourism</li> <li>• Handloom</li> <li>• Agriculture</li> <li>• IT sector</li> <li>• Music &amp; arts</li> </ul> <p>Interactive Task:  Create a “Career Fair” presentation.</p>
5	<p>Local Craft to Global Brand  Study how traditional products become international brands.</p>
6	<p>“What Makes a State Rich?”  Compare sources of income in both states.  Topics:</p> <ul style="list-style-type: none"> <li>• Tourism economy</li> <li>• Handicrafts</li> <li>• Agriculture</li> <li>• Bamboo industry</li> <li>• Mining</li> </ul> <p>Activity:  Students act as economists and suggest new business ideas.</p>
7	<p>“Tourism Startup Challenge”  Students design a tourism company connecting Rajasthan and Nagaland.  Include:</p> <ul style="list-style-type: none"> <li>• Budget</li> <li>• Tourist attractions</li> <li>• Local food</li> <li>• Cultural shows</li> </ul> <p>Skills:  Entrepreneurship and financial thinking.</p>
8	<p>“Traditional Food, Modern Nutrition”  Compare healthy eating habits and nutrition.  Activity:  Prepare food charts and healthy meal plans.  Link:  Health affects productivity and economy.</p>
9	<p>“Women Power in Both States”  Study the role of women in:</p> <ul style="list-style-type: none"> <li>• Business</li> <li>• Handicrafts</li> <li>• Education</li> <li>• Leadership</li> </ul> <p>Presentation:  Poster exhibition or interview project.</p>
10	<p>“Music Industry of India”  Compare folk music and modern music opportunities.  Activity:  Create fusion music using local instruments.  Economy Link:  Entertainment industry and employment.</p>

11	<p>“Smart Village Designers”</p> <p>Design future villages combining:</p> <ul style="list-style-type: none"> <li>• Rainwater harvesting of Rajasthan</li> <li>• Eco-friendly bamboo ideas of Nagaland</li> </ul> <p>Outcome: Sustainable development understanding.</p>
12	<p>“Student Budget Challenge”</p> <p>Students plan a 5-day educational tour to both states.</p> <p>Include:</p> <ul style="list-style-type: none"> <li>• Travel budget</li> <li>• Food expenses</li> <li>• Hotel costs</li> <li>• Shopping</li> </ul> <p>Skills: Maths + financial literacy.</p>
13	<p>“Social Media Influencer for Culture”</p> <p>Students create:</p> <ul style="list-style-type: none"> <li>• Reels ideas</li> <li>• Posters</li> <li>• Tourism campaigns</li> </ul> <p>Learning: Responsible digital creativity and promotion.</p>
14	<p>“Climate Change Detectives”</p> <p>Study climate differences and their effects on life.</p> <p>Compare:</p> <ul style="list-style-type: none"> <li>• Desert climate</li> <li>• Hilly rainfall climate</li> </ul> <p>Real-Life Connection: Environment and agriculture economy.</p>
15	<p>“One India Cultural News Channel”</p> <p>Students become reporters and present:</p> <ul style="list-style-type: none"> <li>• Cultural news</li> <li>• Economic news</li> <li>• Sports updates</li> <li>• Festivals</li> </ul> <p>Interactive: Live classroom newsroom.</p>
16	<p>“Fashion Industry Project”</p> <p>Compare:</p> <ul style="list-style-type: none"> <li>• Tribal weaving</li> <li>• Bandhani</li> <li>• Handloom business</li> </ul> <p>Activity: Design eco-friendly fashion collections.</p>
17	<p>“Youth Entrepreneurship Model”</p> <p>Students invent a small startup using:</p> <ul style="list-style-type: none"> <li>• Bamboo crafts</li> <li>• Camel leather art</li> <li>• Jewellery</li> <li>• Handicrafts</li> </ul> <p>Goal:</p>

	Understand small businesses and Indian economy
18	<p>“Transport and Trade Connection”</p> <p>Compare transport systems and trade routes.</p> <p>Topics:</p> <ul style="list-style-type: none"> <li>• Roads</li> <li>• Railways</li> <li>• Air transport</li> <li>• Goods transportation</li> </ul> <p>Learning:</p> <p>Transport helps economic growth.</p>
19	<p>“Unity Through Sports”</p> <p>Compare sports culture and famous players.</p> <p>Interactive:</p> <p>Organize mini traditional games event.</p>
20	<p>“Nagaland Introduction Stage Presentation”</p> <p>Students give complete introduction speeches in simple Nagamese.</p> <p>Example:</p> <p>“Hello, my name is Aarav. I am from India. I study in Grade 8.”</p> <p>Add:</p> <p>Traditional dress, music and map presentation.</p>
21	<p>“How Culture Creates Employment”</p> <p>Study how festivals create jobs.</p> <p>Compare:</p> <ul style="list-style-type: none"> <li>• Hornbill Festival</li> <li>• Desert Festival</li> </ul> <p>Economy Connection:</p> <p>Tourism income and local business growth.</p>
22	<p>“Young Parliament of India”</p> <p>Students debate:</p> <ul style="list-style-type: none"> <li>• Which state development model is better?</li> <li>• How can states learn from each other?</li> </ul> <p>Skills:</p> <p>Critical thinking and leadership.</p>
23	<p>“India’s Diversity App Design”</p> <p>Students design a mobile app idea teaching:</p> <ul style="list-style-type: none"> <li>• Language</li> <li>• Food</li> <li>• Tourism</li> <li>• Culture</li> </ul> <p>Advanced Skill:</p> <p>Technology + creativity.</p>
24	<p>“Eco-Friendly Art Market”</p> <p>Create handmade products and organize a classroom market.</p> <p>Objective:</p> <p>Understand profit, marketing and customer needs.</p>
25	<p>“Life of a Teenager in Both States”</p> <p>Compare:</p> <ul style="list-style-type: none"> <li>• Daily routine</li> <li>• Hobbies</li> <li>• Internet use</li> <li>• Family life</li> </ul>

	<ul style="list-style-type: none"> <li>• Education pressure</li> </ul> <p>Outcome: Empathy and social understanding.</p>
26	<p>“From Local Craft to Global Brand”</p> <p>Study how local products can become international brands.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• Bamboo products</li> <li>• Block printing</li> <li>• Handloom textiles</li> </ul>
27	<p>“The India Integration Podcast”</p> <p>Students record podcast episodes discussing:</p> <ul style="list-style-type: none"> <li>• Culture</li> <li>• Economy</li> <li>• Student life</li> <li>• Language learning</li> </ul>
28	<p>“Science Behind Traditional Living”</p> <p>Explore scientific reasons behind:</p> <ul style="list-style-type: none"> <li>• Bamboo houses</li> <li>• Thick desert walls</li> <li>• Traditional clothing</li> </ul>
29	<p>“Comparing Development Indicators”</p> <p>Students compare:</p> <ul style="list-style-type: none"> <li>• Literacy rate</li> <li>• Tourism income</li> <li>• Forest resources</li> <li>• Urban development</li> </ul> <p>Skill: Basic data interpretation.</p>
30	<p>“Culture Exchange Week”</p> <p>A complete classroom event where groups represent different aspects:</p> <ul style="list-style-type: none"> <li>• Language</li> <li>• Dance</li> <li>• Economy</li> <li>• Innovation</li> <li>• Student lifestyle</li> </ul>
31	<p>Desert vs Hills Survival Challenge</p> <p>Study how people survive in different climates.</p>
32	<p>Tourism Startup India</p> <p>Create a travel company connecting Rajasthan and Nagaland.</p>
33	<p>Student Budget Planner</p> <p>Plan a low-budget educational tour for students.</p>
34	<p>Future Careers Expo</p> <p>Research industries and career opportunities in both states.</p>
35	<p>Women Changemakers of India</p> <p>Research successful women from both states.</p>
36	<p>India’s Cultural Podcast</p> <p>Record podcast episodes discussing culture and student life.</p>
37	<p>Traditional Games Championship</p> <p>Research and organize local games from both states.</p>

## 2. CBSE Project Work:

### Instructions:

- Prepare a **project file (8–10 pages)**.
- Each student must choose a **different sub-topic**.

**Project Format:**

1. Introduction
2. Objectives
3. Content (with data, examples, case study)
4. Conclusion
5. Bibliography

**Topics:**

- A. Consumer Rights
- B. Sustainable Development
- C. Social Issues

◆ **Roll No. wise division of topics:**

**Division of CBSE Project Work Roll No. wise:**

Roll No.	Topic
1	Rights of Consumers in India
2	Consumer Protection Act, 2019
3	Role of Consumer Courts
4	Consumer Awareness Campaigns in India
5	Case Study: Online Shopping Fraud
6	Misleading Advertisements and Consumer Exploitation
7	Right to Information for Consumers
8	Problems Faced by Rural Consumers
9	Role of NGOs in Consumer Protection
10	Consumer Responsibilities
11	Food Adulteration and Consumer Safety
12	Digital Payments and Consumer Rights
13	Importance of Sustainable Development
14	Renewable Resources: Solar Energy
15	Renewable Resources: Wind Energy
16	Non-renewable Resources and Their Conservation
17	Water Conservation Methods
18	Rainwater Harvesting
19	Role of Individuals in Conservation
20	Sustainable Agriculture Practices
21	Waste Management and Recycling
22	Environmental Issues in India
23	Climate Change and Global Warming
24	Sustainable Lifestyle in Daily Life
25	Plastic Pollution and Its Solutions
26	Gender Inequality in Education
27	Women Empowerment in India
28	Poverty in Urban Areas
29	Economic Disparity in India
30	Caste-Based Discrimination
31	Untouchability and Social Equality
32	Education and Digital Divide
33	Impact of Social Media on Youth
34	Child Labour in India
35	Unemployment Among Youth
36	Cyberbullying and Online Safety
37	Contemporary Emerging Issue: Mental Health Awareness

### 3. Question Paper :

#### Blueprint:

Section	Type	Marks
A	MCQs(Including 2 Assertion Reason Question) = (8×0.5)	4
B	Very Short Answer Type Questions = (3×0.5)	1.5
C	Short Answer Type Questions = (3×1.5)	4.5
D	Long-answer type questions = (2×2.5)	05
	Case-based questions = (2×1)	2
	Map Based Questions = (3×1)	3
<b>Total</b>		20

#### Syllabus Covered:

- History: Rise of Nationalism in Europe
- Geography: Resources and Development (Map-Soils)
- Political Science: Power Sharing
- Economics: Development

### 4. Question Bank to Learn(Chapter-wise):

#### ◆ History - Chapter 1: Rise of Nationalism in Europe

- Q:** What is nationalism?  
**Ans:** A sense of shared identity and unity among people of a nation.
- Q:** Who introduced the idea of liberal nationalism in Europe?  
**Ans:** The educated middle class of Europe.
- Q:** What did liberalism stand for?  
**Ans:** Freedom, equality before law, and representative government.
- Q:** Which event marked the beginning of nationalism in Europe?  
**Ans:** French Revolution
- Q:** Who was proclaimed German Emperor in 1871?  
**Ans:** Kaiser William I
- Q:** Who played a leading role in the unification of Italy?  
**Ans:** Giuseppe Mazzini, Count Camillo de Cavour, Giuseppe Garibaldi
- Q:** What was the Zollverein?  
**Ans:** A customs union that helped economic unification of Germany.
- Q:** What role did women play in nationalist movements?  
**Ans:** They actively participated but were denied political rights.
- Q:** What was Romanticism?  
**Ans:** A cultural movement that emphasized emotions, folk traditions, and nationalism.
- Q:** What was the Frankfurt Parliament?  
**Ans:** An assembly of German leaders in 1848 to create a unified Germany.
- Q:** What is the significance of the Treaty of Vienna (1815)?

**Ans:** It restored monarchies and suppressed nationalist movements.

- Q:** Who was Otto von Bismarck?

**Ans:** The architect of German unification through wars and diplomacy.

#### ◆ Geography - Resources and Development

- Q:** What are resources?  
**Ans:** Things available in the environment that can be used.
- Q:** What are natural resources?  
**Ans:** Resources obtained from nature.
- Q:** Name two renewable resources.  
**Ans:** Solar energy, wind energy.
- Q:** What are non-renewable resources?  
**Ans:** Resources that cannot be replenished quickly.
- Q:** What is sustainable development?  
**Ans:** Development that meets present needs without harming future generations.
- Q:** What is soil erosion?  
**Ans:** Removal of topsoil by wind or water.
- Q:** Name one method to conserve soil.  
**Ans:** Afforestation.
- Q:** What is land degradation?  
**Ans:** Decline in land quality due to human activities.
- Q:** What type of soil is ideal for cotton?  
**Ans:** Black soil.
- Q:** What is resource planning?  
**Ans:** Proper use and management of resources.

#### ◆ Political Science - Power Sharing

- Q:** What is power sharing?  
**Ans:** Distribution of power among different groups.

2. **Q:** Why is power sharing important?  
**Ans:** It reduces conflict and ensures stability.
3. **Q:** Name a country known for power sharing.  
**Ans:** Belgium.
4. **Q:** What is democracy?  
**Ans:** Government of the people.
5. **Q:** What is horizontal division of power?  
**Ans:** Power shared among organs like legislature, executive, judiciary.
6. **Q:** What is vertical division of power?  
**Ans:** Power shared among central, state, and local governments.
7. **Q:** What is community government?  
**Ans:** Government formed by different social groups.
8. **Q:** What is majority rule?  
**Ans:** Rule by the majority group.
9. **Q:** Why did Sri Lanka face conflicts?  
**Ans:** Due to majoritarian policies.
10. **Q:** Name one feature of federalism.  
**Ans:** Division of powers between levels of government.

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#### ◆ Economics - Development

1. **Q:** What is development?  
**Ans:** Improvement in quality of life.
2. **Q:** What is per capita income?  
**Ans:** Average income per person.
3. **Q:** What is national income?  
**Ans:** Total income of a country.
4. **Q:** What are public facilities?  
**Ans:** Basic services provided by the government.
5. **Q:** What is sustainable development?  
**Ans:** Development without harming future generations.
6. **Q:** What is HDI?  
**Ans:** Human Development Index.
7. **Q:** Name one component of HDI.  
**Ans:** Life expectancy.
8. **Q:** What are renewable resources?  
**Ans:** Resources that can be replenished.
9. **Q:** What is unemployment?  
**Ans:** Lack of jobs for people willing to work.
10. **Q:** What is poverty?  
**Ans:** Condition of lacking basic needs.

Part - I

Topics Covered:

- Minimum Learning Outcomes(April & May Month)

**Section A: Multiple Choice Questions (1×10 = 10 marks)**

- The Tropic of Cancer passes almost through the middle of:
  - Asia
  - India
  - Africa
  - Europe
- The Indian Standard Time is based on:
  - 82°30' E longitude
  - 75° E longitude
  - 90° E longitude
  - 60° E longitude
- The total number of continents in the world is:
  - 5
  - 6
  - 7
  - 8
- The largest ocean in the world is:
  - Atlantic Ocean
  - Indian Ocean
  - Arctic Ocean
  - Pacific Ocean
- Latitude lines run:
  - East to West
  - North to South
  - Diagonally
  - Circular only
- Longitude lines meet at:
  - Equator
  - Poles
  - Tropics
  - Prime Meridian
- Which country is NOT a neighbour of India?
  - Nepal
  - China
  - Brazil
  - Bangladesh
- The capital of Rajasthan is:
  - Udaipur
  - Jaipur
  - Jodhpur
  - Kota
- Who was the first President of India?
  - Jawaharlal Nehru
  - Rajendra Prasad
  - Sardar Patel
  - B.R. Ambedkar
- Who was the first Prime Minister of India?
  - Mahatma Gandhi
  - Subhash Chandra Bose
  - Jawaharlal Nehru
  - Lal Bahadur Shastri

**Section B: Fill in the Blanks (1×10 = 10 marks)**

- The imaginary lines running parallel to the Equator are called \_\_\_\_\_.
- The Prime Meridian is at \_\_\_\_\_ longitude.
- India lies in the continent of \_\_\_\_\_.
- The smallest continent is \_\_\_\_\_.
- \_\_\_\_\_ is known as the 'roof of the world'.
- The capital of India is \_\_\_\_\_.
- The ocean to the south of India is \_\_\_\_\_ Ocean.
- India shares its north-western border with \_\_\_\_\_ and \_\_\_\_\_.
- The first Vice President of India was \_\_\_\_\_.
- The study of Earth is called \_\_\_\_\_.

**Section C: Match the Following (1×5 = 5 marks)**

Column A	Column B
1. Equator	a. 0° Longitude
2. Prime Meridian	b. Largest Ocean
3. Pacific Ocean	c. 0° Latitude
4. Nepal	d. Neighbour of India
5. Jaipur	e. Capital of Rajasthan

**Section D: Map-Based Questions (5 marks)**

- Mark the following on the map:
  - Tropic of Cancer
  - Indian Standard Meridian
  - Any 3 states of India with capitals

2. Label:
- Any 2 neighbouring countries
  - One ocean surrounding India

**Part – II**

**Chapters Covered:**

- **History:** *Rise of Nationalism in Europe*
- **Geography:** *Resources and Development (Map-Soils)*
- **Political Science:** *Power Sharing*
- **Economics:** *Development*

**Section A: Assertion-Reason (1×8 = 8 marks)**

**Choose the correct option:**

- 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  
C. A is true, but R is false  
D. A is false, but R is true
1. Assertion: Nationalism emerged as a strong force in Europe in the 19th century.  
Reason: People began to develop a sense of shared identity and unity.
  2. Assertion: Forest resources are important for ecological balance.  
Reason: Forests increase soil erosion.
  3. Assertion: Belgium adopted a power-sharing model.  
Reason: To avoid conflict between different communities.
  4. Assertion: Per capita income alone is not enough to measure development.  
Reason: It does not reflect distribution of income.
  5. Assertion: Soil conservation is necessary.  
Reason: Soil is a renewable resource that never depletes.
  6. Assertion: Power sharing is good for democracy.  
Reason: It helps reduce social conflicts.
  7. Assertion: The Frankfurt Parliament failed in its objectives.  
Reason: It lacked support from the monarchy and military.
  8. Assertion: Different people have different development goals.  
Reason: Development is uniform for all sections of society.

**Section B: Case Study Questions (2×6 = 12 marks)**

**1. History Case**

In the 19th century, Europe witnessed several revolutions where people demanded constitutionalism and national unity. Cultural symbols like flags, songs, and language played a key role.

**Questions:**

- a) What role did culture play in developing nationalism?
- b) Name one symbol used to represent unity.
- c) Why did revolutions occur in Europe?

**2. Political Science Case**

Belgium is a small country in Europe with diverse linguistic groups. To maintain peace, leaders designed a system of sharing power among communities.

**Questions:**

- a) What problem did Belgium face?
- b) How was power shared?
- c) What lesson does it give to other countries?

**Section C: Very Short Answer (1×8 = 8 marks)**

1. What is meant by nationalism?
2. Define resource planning.
3. What is horizontal power sharing?
4. Name one type of soil found in India.
5. What is sustainable development?
6. What is democracy?

7. What is the meaning of “civil war”?
8. Define human resource.

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**Section D: Short Answer Questions (3×4 = 12 marks)**

1. Explain any three causes of nationalism in Europe.
2. Describe methods of soil conservation.
3. Differentiate between vertical and horizontal power sharing.
4. Why is development a multidimensional concept?

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**Section E: Map Skills (5 marks)**

1. Identify and label the following soil types:
  - Alluvial Soil
  - Black Soil
  - Red Soil
  - Laterite Soil
  - Desert Soil

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**Section F: Long Answer Questions (5×1 = 5 marks)**

1. Explain how power sharing strengthens democracy with suitable examples.

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**Bonus Thinking Question (Optional - 5 marks)**

“Economic development without environmental protection can harm future generations.”  
Do you agree? Give reasons.



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