PRAYAG PUBLIC SCHOOL
SUMMER VACATION HOLIDAY (2025-26)
CLASS -10th

HINDI

1 'सूरदास के पद' का भावार्थ लिखिए और याद कीजिए।

2 'सूरदास के पद' पाठ से संबंधित सभी प्रश्नों को याद कीजिए और लिखिए।

3 'राम-लक्ष्मण-परशुराम संवाद' पाठ का भावार्थ लिखिए और याद कीजिए।

4 'राम-लक्ष्मण-परशुराम संवाद' पाठ से संबंधित सभी प्रश्नों को लिखिए और याद कीजिए।

5. 'आत्मकथ्य' पाठ से संबंधित सभी प्रश्नों को याद कीजिए लिखिए।

6. 'नेताजी का चश्मा' पाठ से संबंधित सभी प्रश्नों को याद कीजिए लिखिए।

7. 'बालगोबिन भगत' पाठ से संबंधित सभी प्रश्नों को याद कीजिए और लिखिए।

8. 'लखनवी अंदाज' पाठ से संबंधित सभी प्रश्नों को याद कीजिए और लिखिए।

9. 'ग्लोबल वार्मिंग'- एक वैश्विक समस्या विषय पर लगभग 150 शब्दों में एक अनुच्छेद लिखिए।

10. 'महाकुंभ 2025' मेले का वर्णन लगभग 300 शब्दों में कीजिए।

11. आपको अपनी कोई पुरानी कार बेचनी है, उसके लिए एक आकर्षक विज्ञापन तैयार कीजिए।

12 अलंकार एवं उसके भेद को चार्ट पेपर पर बनाइए।

13. पद परिचय – प्रत्येक व्याकरणिक कोटि के 10-10 उदाहरण लिखिए।

14. रचना के आधार पर वाक्य भेद लिखिए । प्रत्येक भेद के 10-10 उदाहरण भी लिखिए।

I T

Units Covered: Unit 1 – Digital Documentation (Advanced) & Unit 3 – ICT Skills
Total Questions: 70 Subjective
Unit 1: Digital Documentation (Advanced) – 35 Questions

1. Define 'Style' in LibreOffice Writer. What are its advantages?
2. Describe the steps to create a new style from a selection in LibreOffice Writer.
3. Explain how to load styles from a template or another document in LibreOffice Writer.
4. List any three methods to insert images into a text document in LibreOffice Writer.
5. What is image cropping? Describe the steps to crop an image in LibreOffice Writer.
6. Differentiate between 'Keep scale' and 'Keep image size' options during image cropping.
7. Define the following graphic filters: Invert, Solarization, Posterize, Charcoal, and Mosaic.
8. How can you resize an image in LibreOffice Writer? Describe the steps involved.
9. What is the function of the 'Transparency' option in the picture toolbar of LibreOffice Writer?
10. List three ways to undo a task in LibreOffice Writer.
11. Explain the following terms in the context of positioning graphics: Arrangement, Alignment, Text Wrapping, and Anchoring.
12. What are the steps to open the drawing toolbar in LibreOffice Writer?
13. How can you group different drawing objects in LibreOffice Writer?
14. Define 'Mail Merge' in LibreOffice Writer. What are its main components?
15. List the steps involved in performing a Mail Merge in LibreOffice Writer.
16. What are labels in the context of Mail Merge? How can you print labels using Mail Merge in LibreOffice Writer?
17. Explain the steps to create a template from an existing document in LibreOffice Writer.
18. Describe the process to set a custom template as the default template in LibreOffice Writer.
19. Explain how to insert a Table of Contents in LibreOffice Writer.
20. How can you update the Table of Contents after making changes in the document?
21. What is the purpose of the 'Entries' tab in the 'Table of Contents, Index or Bibliography' dialog box?

22. Define BIOS. What is its role in a computer system?
23. What is the function of the 'Start' button in Windows operating systems?
24. Name and describe two common icons found on the Windows desktop.
25. What is the purpose of the 'Recycle Bin' in Windows?
26. Explain the steps to rename a folder in Windows.
27. Differentiate between GUI and CUI. Provide examples of each.
28. List any four components of the Windows 7 desktop.
29. Describe the function of the taskbar in Windows operating systems.
30. Explain the process of creating a new folder in Windows.
31. How can you search for a file or folder in Windows?
32. Describe the steps to delete a file or folder in Windows.
33. What precautions should be taken while deleting system files?
34. How can you restore a deleted file from the Recycle Bin?
35. Explain the importance of organizing files into folders.
36. What is the purpose of the 'Control Panel' in Windows operating systems?
37. List and describe any three types of operating systems.
38. What is the function of the 'My Computer' icon in Windows?
39. How can you view hidden files and folders in Windows?
40. Describe the steps to install a new software application in Windows.
41. What is the purpose of antivirus software? Name two popular antivirus programs.
42. Explain the importance of regular software updates.
43. Describe the process of setting up a printer in Windows.

Instructions for Students:
Write answers neatly in your notebook.
Use diagrams or flowcharts where applicable.
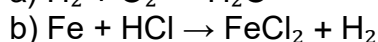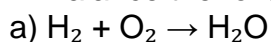Attempt all questions sincerely.

Mathematics

1. Find the HCF of $(135,225)$.
2. Show that the number 7x11x13 +13 is a composite number.
3. **ASSERTION (A):** The HCF of two numbers is 8 and their product is 280. Then their LCM is 40.
REASON (R): For any two positive integers a and b, HCF (a, b) x LCM (a, b) = a x b.
4. Prove that $2+ \sqrt{3}$ is an irrational number.
5. Find the HCF and LCM of 40, 36 and 126 using prime factorisation method.
6. Find the LCM and HCF of the following pairs of integers and verify that
LCM x HCF = product of the number
a) 510 and 92.   b) 336 and 54
7. Using prime factorisation method, find the HCF and LCM of 72,126 and 168. Also, show the HCF × LCM product of these numbers.
8. Prove that $2 \sqrt{3}$ is irrational.
9. Explain why $5 \times 11 \times 17 + 17$ and $7 \times 6 \times 5 \times 3 \times 2 \times 1 + 5$ are composite numbers.
10. Prove that $1/\sqrt{2}$ is an irrational number.
11. If $(x + a)$ is a factor of $2x^2 + 2ax + 5x + 10$ then value of a is:
12. If one zero of the polynomial $x^2- x + 1$ is $(2 + \sqrt{3})$, then find the value of other zero
13. Find a quadratic polynomial, the sum and product of whose zeros are –3 and 2, respectively.
14. If the sum of the zeros of the quadratic polynomial $p(x) = p * x^2 - 4x + 2k$ is same as their product, Find the value of k.
15. If the zeros of the polynomial $x2 - 5x + k$ are the reciprocal of each other, then find the value of k
16. For what value of k, –8 is a zero of the quadratic polynomial $x^2 - x - 5k + 2$ Also find the other zero.
17. Find the zeros of the polynomial $x^2 + 8x$ and verify the relationship between zeros and the coefficients.

18. Find a cubic polynomial whose zeros are 4, –3 and –1.
19. If the zeros of the polynomial $x^3 - 3x^2 + x + 1$ are a – b a and a + b find a and b.

Science

Chapter 1: Chemical Reactions and Equations

1. Balance the following chemical equations:
a) $H_2 + O_2 \rightarrow H_2O$
b) $Fe + HCl \rightarrow FeCl_2 + H_2$
2. Define the following types of chemical reactions with one example each:
a) Combination Reaction
b) Decomposition Reaction
c) Displacement Reaction
d) Double Displacement Reaction
3. Write the chemical equation for the reaction of zinc granules with hydrochloric acid. What happens if you bring a burning matchstick near the gas evolved?
4. Prepare a file containing all the activities .
5. What do you observe when:
a) Iron nails are dipped in copper sulphate solution?
b) Lead nitrate reacts with potassium iodide?

Chapter 2: Light – Reflection and Refraction

6. Draw a ray diagram to show the image formed by a concave mirror when:
a) Object is placed between the pole and focus
b) Object is at the center of curvature
7. Define the laws of reflection and draw a labelled diagram to show reflection from a plane mirror.
8. A ray of light passes from air into glass. Draw a ray diagram and label:
a) Incident ray
b) Refracted ray
c) Normal
d) Angle of incidence and refraction
9. A concave mirror produces a real and inverted image of size equal to the object when placed at a certain position. Find the object position and image position.
10. Differentiate between reflection and refraction of light with suitable examples and diagrams.
11. Solve all numerical problems related to mirror ,lens and refraction index at least 15 problems.
12. Draw all ray diagram for mirror and lens.

SOCIAL SCIENCE

History
Chapter 1: The Rise of Nationalism in Europe
Key Terms: Nationalism, Nation-State, Liberalism, Conservatism, Romanticism, Zollverein,Unification of Germany and Italy, Treaty of Vienna, Frankfurt Parliament.
Assignment Tasks:
1. Create a timeline highlighting major events leading to the unification of Germany and Italy.
2. Write a short essay on the role of Giuseppe Mazzini in promoting nationalism in Europe.
Previous Year Questions:
"Explain the role of language in developing nationalist sentiments in Europe." (CBSE 2023)
"Describe the process of unification of Italy." (CBSE 2024)
"How did the Treaty of Vienna (1815) come into being?" (CBSE 2025)
Chapter 2: The Rise of Nationalism in India
Key Terms: Swadeshi Movement, Non-Cooperation Movement, Civil Disobedience Movement, Rowlatt Act, Jallianwala Bagh Massacre, Khilafat Movement, Satyagraha, Simon Commission.
Assignment Tasks:
1. Prepare a report on the impact of the Jallianwala Bagh massacre on the Indian national movement.
2. Design a poster promoting the Swadeshi Movement, emphasizing the use of indigenous goods.
Previous Year Questions:
"Explain the significance of the Non-Cooperation Movement." (CBSE 2023)
"How did the Civil Disobedience Movement affect the British economy?" (CBSE 2024)
"Discuss the role of the Simon Commission in the Indian freedom struggle." (CBSE 2025)
Chapter 3: Print Culture and the Modern World

Key Terms: Manuscripts, Gutenberg Printing Press, Vernacular Press Act, Penny Magazines, Print Revolution, Censorship.

Assignment Tasks:

1. Create a collage showcasing the evolution of print culture from manuscripts to digital media.

2. Write an article on the role of print culture in spreading reformist ideas in 19th-century India.

Previous Year Questions:

"Discuss the impact of print culture on the growth of nationalism in India." (CBSE 2023)

"How did the print revolution influence the reading habits of people?" (CBSE 2024)

"Explain the role of print in the spread of religious reforms in India." (CBSE 2025)

Geography

Chapter 1: Resources and Development

Key Terms: Renewable and Non-Renewable Resources, Resource Planning, Land Degradation, Soil Erosion, Conservation.

Assignment Tasks:

1. Prepare a case study on resource planning in India, highlighting its importance.

2. Create a mind map showing different types of resources and their sustainable management.

Previous Year Questions:

"Explain the need for resource planning in India." (CBSE 2023)

"What are the causes and consequences of land degradation?" (CBSE 2024)

"Discuss the measures to conserve soil." (CBSE 2025)

Chapter 2: Agriculture

Key Terms: Kharif and Rabi Crops, Intensive and Extensive Farming, Plantation Agriculture, Green Revolution, Organic Farming.

Assignment Tasks:

1. Create a chart comparing traditional and modern farming methods.

2. Write a report on the impact of the Green Revolution on Indian agriculture.

Previous Year Questions:

"Describe the features of plantation agriculture." (CBSE 2023)

"What are the challenges faced by Indian farmers today?" (CBSE 2024)

"Explain the importance of organic farming in sustainable agriculture." (CBSE 2025)

Chapter 3: Forest and Wildlife Resources

Key Terms: Biodiversity, Deforestation, Conservation, Biosphere Reserves, Endangered Species, Chipko Movement.

Assignment Tasks:

1. Design a poster promoting wildlife conservation.

2. Write an essay on the importance of forest resources in maintaining ecological balance.

Previous Year Questions:

"Explain the factors responsible for the depletion of flora and fauna." (CBSE 2023)

"What steps have been taken by the government to conserve forest and wildlife resources?" (CBSE 2024)

"Discuss the role of community participation in forest conservation." (CBSE 2025)

Chapter 4: Water Resources

Key Terms: Multipurpose River Projects, Rainwater Harvesting, Watershed Management, Dams, Water Scarcity.

Assignment Tasks:

1. Create a model demonstrating rainwater harvesting techniques.

2. Prepare a presentation on the advantages and disadvantages of multipurpose river projects.

Previous Year Questions:

"Discuss the importance of water conservation in India." (CBSE 2023)

"Explain the causes of water scarcity in India." (CBSE 2024)

"Describe the role of dams in water resource management." (CBSE 2025)

Civics

Chapter 1: Gender, Religion, and Caste

Key Terms: Sexual Division of Labour, Feminist Movements, Communalism, Secularism, Caste Hierarchy, Affirmative Action.

Assignment Tasks:

1. Write an article on the role of women in Indian politics.

2. Conduct a survey in your locality to understand the impact of caste on social interactions and present your findings.

Previous Year Questions:

"How does communalism pose a threat to Indian democracy?" (CBSE 2023)

"Explain the role of caste in Indian politics." (CBSE 2024)

"Discuss the impact of gender inequality on the political participation of women." (CBSE 2025)

Chapter 2: Political Parties

Key Terms: National and Regional Parties, Multi-Party System, Coalition Government, Party Symbols, Election Commission.

Assignment Tasks:

1. Create a comparative chart of major national political parties in India, including their symbols and ideologies.

2. Write a report on the role of regional parties in Indian politics.

Previous Year Questions:

"What are the challenges faced by political parties in India?" (CBSE 2023)

"Explain the necessity of political parties in a democratic country." (CBSE 2024)

"Discuss the role of opposition parties in a democracy." (CBSE 2025)

Economics

Chapter 1: Money and Credit

Key Terms: Barter System, Formal and Informal Credit, Collateral, Self-Help Groups, Creditworthiness, Terms of Credit.

Assignment Tasks:

1. Prepare a flowchart showing the functioning of Self-Help Groups in rural areas.

2. Write a case study on how access to credit can improve the livelihood of a small farmer.

Previous Year Questions:

"Differentiate between formal and informal sources of credit." (CBSE 2023)

"Explain the role of credit in the development of a country." (CBSE 2024)

"Discuss the impact of high-interest loans on the rural economy." (CBSE 2025)

Note: Students are encouraged to refer to their NCERT textbooks and class notes for detailed explanations. The assignments aim to reinforce understanding and application of concepts. Please ensure all tasks are completed and submitted by the due date specified .

English

Use this holiday to revise and strengthen your concepts in English. Please complete the following tasks neatly in your separate notebook of summer vacation homework.

Section A: Reading Skills

1. Read the following text.

1. Tropical Race 4 (TR 4), the fungal strain has put bananas in trouble. Beginning in Taiwan, it has leapfrogged across Asia, Colombia, Peru and Venezuela in 2019. Most banana imports to the US and Europe have been "Cavendish" for decades, for decades. But Cavendish is not pure banana; it simply loses on test. However, it is solid immunity.

2. In the 1950's Gros Michel or "Big Mike bananas were popular because of resilience, large fruits and sublime taste. But were nearly wiped out in Latin America by Tropical Race 1. Gros Michel was quickly replaced with Cavindish which was immune to TR 1. Unfortunately, TR 1 turned out to be just the first deadly Pathogen threaten bananas. TR4 emerged in Taiwan in the 1990s this time with Cavindish in its Crossshairs.

3. For many scientists, the solution seemed clear: They'd have to make one. Enter CRISPR, the genetic editing technology snipping a gene that makes crops susceptible to a Pathogen. The GM Cavendish developed by the Australian researchers will easily enter American markets, where perhaps 75% of the food in the supermarkets has at least one genetically modified ingredient.

4. Producing GM foods is currently expensive and therefore requires the backing of large corporations whose priorities lie in maximum yields and profit, not biodiversity or the health of workers and the environment. The banana giant, Fresh Del Monte Produce, has teamed up with the Australian university that developed that first TR 4 resistant GM banana to fund a five-year project to perfect and test the new variety outside of Laboratory greenhouses.

5. Agricultural activities can support biodiversity and soil health. For example, the agroforestry system's used by many indigenous groups across Latin America. These allow space between plants and grow multiple banana varieties so that disease is far less likely to spread. But the temptation of a shiny technological fix- and short-term profits-frequently mutes the conversation about how such measures could be integrated into larger scale banana production.

6. GM Foods are necessary to feed an ever-growing world but is less discussed is how the ways we grow food actually exacerbate our problems. Industrial agriculture strips away topsoil mandating the use of chemical fertilizers. Growing genetically identical plants close together allows Pathogens to spread quickly,

decimating entire crops.

Based on your understanding of the passage, answer the following questions:

(A) TR-4 has been travelling at a furious pace and its Global trajectory has covered..............
(a) Australia to America   (b) Taiwan to South America
(c) America to Asia   (d) Africa to Asia

(B) What are the merits and demerits of Cavendish bananas? Write in 40 words.

(C) Big Mike lost Battle with the Pathogens when it was completely wiped out by.............
(a) TR 3, Taiwan   (b) TR 2, Asia   (c) TR 1, Latin America   (d) TR 4, Africa

(D) One of the facts given below is not associated with the agroforestry method. Pick it out from the option
(a) It supports monocropping.   (b) It helps soil health
(c) It helps contain disease in plants.   (d) It supports biodiversity.

(E) What is the objective of genetic editing technology in plants?

(F) The Australian scientists have successfully used CRISPR to get a new variety of commercial bananas by inserting a gene for resilience in.........
(a) genetically modified bananas   (b) commercial bananas
(c) wild bananas   (d) Cavendish bananas

(G) State whether the following statement is TRUE or FALSE:
"Fresh Del Monte, the banana giant after completing its five-year project on bananas, plans to test and grow the GM Cavendish in plantation."

(H) Fill in the blank in the following sentence.
The big corporations do not have a rather cold attitude and a marked indifference towards__

Section B: Writing Skills

➢ **Use Correct format to write the letter given below**
➢ **Body is the meatiest part of the letter as it contains all the information that the writer wants to convey. The body includes three paragraphs:**
  • **Introductory paragraph/ Sentence: It states the purpose of writing the letter.**
  • **Informative Paragraph: Give details of the problem, its causes, effects, etc.**
  • **Concluding Paragraph: It states your hopes, comments, request, suggestions, etc.**

a. You are Polly Chawla, a resident of Worli Park, Mumbai. You recently saw a documentary about the youth of the nation titled "A Country in Good Hands". Write a letter of appreciation to the Editor of The Youth Times, in not more than 120 words, drawing her attention to the good that the youngsters around you are doing. Suggest ways in which they can further contribute to the betterment of society.

b. You are Mahima/Manoj, a resident of B/20, Shastri Road, Mumbai and a volunteer with 'Clean India'. As a concerned citizen, you have noticed that Marine Lines has become heavily polluted with plastic and garbage.
   Write a letter to the editor of a prominent newspaper to raise awareness about this issue in your letter, explain how environmental damage can be reduced through the help of NGO's, individuals and government organizations.

c. You are Sapna/Samar, a resident of A-411, Vivek Vihar, Delhi. Write a letter to the Commissioner of the Municipal Corporation to highlight your concern about the street lights in your area that have been out of order for a long time. Emphasize the safety issues and inconvenience caused by the lack of proper street lighting and request prompt repairs**.**

d. Write a letter in 120 words to M/s Riddhi Publishing House, Rewari complaining that the books sent by them were not the ones you had ordered and ask for the replacement. You are Shalini Arora/Samar Arora of Kamla Nagar, New Delhi.

e. You are Rakesh Mehta, Secretary of Rainbow Apartments, Marathalli, Bangalore. A major pipeline supplying water to your apartment complex burst recently. Repairs are expected to be time consuming, and the available water is insufficient to meet the requirements of residents and staff within the premises.
   Write a letter to the Area Development Officer, Marathalli Area, Bangalore, in not more than 120 words, requesting him to complete the repair work at the earliest, drawing attention to the difficulties faced by the people and the challenges of procuring water from outside.

Section C: Literature Questions

Answer the following text-based questions briefly in 30-40 words each:
1. What was Lencho's faith in God? How did it affect him?
2. Describe Nelson Mandela's view on courage and freedom.
3. How did Mrs. Pumphrey show her concern for Tricki?
4. What kind of treatment did Tricki receive at the hospital?
5. Why did the thief say that Anil was the most trusting person he had ever met?
6. What was the turning point in the story "The Thief Story"?

7. How did the crow and the hemlock tree change the poet's mood?
8. What do 'fire' and 'ice' represent in the poem?
9. Examine the role of nature in the poem 'The Dust of Snow'.

<u>Extra Effort in Literature</u>

Read the chapters mentioned below thoroughly :-

    a.   Two stories about flying
        i.   His First Flight (Part-1)
        ii.   The Black Aeroplane (Part-2)
    b. A Triumph of Surgery
    c. The Thief's Story

1:- Write your own ideas about the message of story for your life

2:- Imagine if you are the character mentioned below of respective chapters how you react on such things:-

        i-   The Pilot of Aeroplane
        ii-   James Herriot , Veterinary surgeon
        iii-   Anil

Instructions

Complete your work neatly and submit on the first day after the holidays. Revise all the chapters covered till now.

Practice reading comprehension and unseen passages for better understanding. Have a joyful and productive holiday!