

PM SHRI KENDRIYA VIDYALAYA MATI KANPUR DEHAT

HOLIDAY HOMEWORK (AUTUMN BREAK 2026)

CLASS-10th

SUBJECT-ENGLISH

Q.1 Character sketch of Natalya, Lomov and Bholi.

Q.2 Write an article on the topic of 'The Importance of Educating a Girl Child'.

Q.3 Write a diary entry on the day when I enjoyed most in autumn break.

Q.4 Do all extracts of the poem 'Anne Gregory' in your notebook.

Q.5 Revise direct and indirect narration .

Q.6 Do exercise related to determiners

Read the following story and choose the correct option.

Once upon (1)___ time, there lived (2)___ man named Mahesh Das. He was well known for (3)___ intelligent and witty answers. (4)___ people came from far away areas to ask advice on (5) ___ things. One day he decided to meet king Akbar, so he travelled to Agra. But while entering through (6) ___ gates of the palace, one of the guards stopped him. (7)___ guard said if Mahesh Das gave half of whatever he received from Akbar, he would be allowed to go in. Mahesh Das agreed and went inside to meet Akbar. When Akbar asked what Mahesh Das wanted, he asked for 100 lashes as his reward. Shocked to hear such (8)___ unusual request, Akbar asked him why he wanted lashes. Mahesh Das said that (9)___ guard at the gate asked to give him half of whatever he would get, and that's the reason why he asked for 100 lashes. Akbar got very angry at (10)___ behaviour of the guard and summoned him to the court. Once the guard arrived, he was not only given (11)___ lashes but also imprisoned for five years. Impressed by the wit of Mahesh Das, Akbar gave him a new name, 'Birbal' and made him a respected member of the court.

1. (i) the (ii) an (iii) a
2. (i) a (ii) the (iii) an
3. (i) his (ii) him (iii) its
4. (i) many (ii) much (iii) enough
5. (i) enough (ii) any (iii) many
6. (i) the (ii) a (iii) any
7. (i) a (ii) the (iii) an
8. (i) an (ii) a (iii) the
9. (i) a (ii) an (iii) first
10. (i) a (ii) the (iii) an
11. (i) enough (ii) much (iii) any

विषय-हिन्दी

1. पढ़ाए गए पाठ्यक्रम का अभ्यास कार्य।
2. पढ़ाए गए हर पाठ (मुख्य पुस्तक एवम् पूरक पुस्तक) के दो महत्वपूर्ण प्रश्न उत्तर सहित अपनी कक्षा कॉपी में लिखना है।
3. भाषा की बात और व्याकरण (रचना के आधार पर वाक्य भेद, वाच्य, पद परिचय, अलंकार श्लेष, उत्प्रेक्षा, अतिशयोक्ति , मानवीकरण) का अभ्यास, 10 उदाहरण सहित।
4. पत्र लेखन, अनुच्छेद लेखन, स्ववृत्त लेखन, ई मेल लेखन, विज्ञापन लेखन ,संदेश लेखन का अभ्यास एवम् सभी के एक प्रारूप को अपनी कक्षा कॉपी में लिखना है।
5. आगामी परीक्षा हेतु पुनरावृत्ति।

परियोजना कार्य :-

जैसा कक्षा में आपको बताता गया था अपनी पोर्टफोलियो फाइल में आपको अभी तक पढ़ाए गए पाठ और कविता का सारांश/भावार्थ लिखना है। प्रारूप

1. पाठ्यपुस्तक का नाम
2. पाठ /कविता का नाम
3. लेखक/कवि का नाम
4. सारांश/भावार्थ 5 पैराग्राफ
5. संदेश 5 लाइन

नवाचार एवं नवप्रवर्तन कार्य :-

गीता, कुरान, बाइबल एवं गुरुग्रंथ साहिब

आपको एक 50 पेज की कॉपी बनानी है, उसे पांच भाग में विभाजित

1. हर विषय हेतु 10 पेज
2. हिंदी एवं सभी विषयों के प्रथम दो पेज पर नवीन पाठ्यक्रम
3. हिंदी के कुल पाठ को 4 पेज में विभाजित करना है। फिर हर पाठ के दो महत्वपूर्ण प्रश्न लिखने हैं, उत्तर हेतु केवल कॉपी का पृष्ठ संख्या लिखे।
4. लेखन के लिए भी तीन पृष्ठ जिसमें विषय के साथ एक एक प्रारूप।
5. अंतिम पृष्ठ पर अपठित गद्यांश एवं पाद्यांश।

इसी प्रकार आपको हर विषय हेतु अपनी यह गीता, कुरान, बाइबल एवं गुरुग्रंथ साहिब का निर्माण करना है।

SUBJECT-MATHEMATICS

Chapters: Circles, Areas Related to Circles and Statistics

Total Questions: 20

General Instructions

- Attempt all questions in your mathematics notebook.
- Draw neat, labeled diagrams wherever required.
- Show complete steps for numerical problems.
- Use $\pi = 22/7$ wherever appropriate.

Section A – Circles

1. From a point P, 13 cm away from the centre O of a circle of radius 5 cm, two tangents PA and PB are drawn. Find the length of each tangent.
2. Prove that the lengths of tangents drawn from an external point to a circle are equal.
3. A quadrilateral ABCD is circumscribed about a circle. Prove that $AB + CD = AD + BC$.
4. Two tangents PA and PB are drawn to a circle with centre O. If $\angle APB = 70^\circ$, find $\angle AOB$.
5. A circle touches all four sides of a quadrilateral ABCD. If $AB = 8$ cm, $BC = 6$ cm and $CD = 7$ cm, find AD.
6. A tangent PT is drawn from an external point P to a circle with centre O. If $OP = 17$ cm and the radius is 8 cm, calculate PT.

Section B – Areas Related to Circles

7. Find the area and circumference of a circle of radius 14 cm.
8. Find the area of a sector of a circle with radius 21 cm and central angle 60° .
9. Find the length of an arc of a circle of radius 14 cm subtending an angle of 90° at the centre.
10. A circular park has a radius of 35 m. Find the cost of fencing it at ₹25 per metre.
11. Find the area of the minor segment of a circle of radius 14 cm if the angle subtended by the chord at the centre is 90° . Use $\pi = 22/7$.
12. A horse is tied to a peg at one corner of a square field with a rope of length 14 m. Find the area of the region in which the horse can graze, assuming the rope can move freely and the square field is sufficiently large.
13. A circular ring has an outer radius of 14 cm and an inner radius of 7 cm. Find the area of the ring.

Section C – Statistics

14. Find the mean of the following observations: 12, 15, 18, 20, 25, 30.

15. Calculate the median of the following frequency distribution:

Class interval	Frequency
0–10	5
10–20	8
20–30	12
30–40	7
40–50	3

16. Find the mode of the following grouped data:

Class interval	Frequency
0–10	4
10–20	7
20–30	12
30–40	9
40–50	5

17. Calculate the mean using the assumed mean method.

Class interval	Frequency
0–10	3
10–20	5
20–30	8
30–40	6
40–50	3

18. The mean of the following frequency distribution is 25. Find the missing frequency x .

Class interval	Frequency
0–10	5
10–20	x
20–30	10
30–40	5

19. The following table shows the marks obtained by students in a test. Find the median.

Marks	Number of students
0–10	4
10–20	6
20–30	10
30–40	15
40–50	5

20. The mean and median of a distribution are 26 and 27 respectively. Estimate the mode using the empirical relationship between mean, median and mode.

SUBJECT-SCIENCE

1. Solve 10 Previous Year Questions (PYQs) for the following chapters:

- (a) Chapter 11: Electricity (b) Chapter 12: Magnetic Effects of Electric Current
- (b) Chapter 13: Our Environment

2. Write and balance all chemical equations from these chapters:

- (i) Carbon and its Compounds (ii) Metals and Non-Metals

3. Draw and practice all diagrams from the chapter: (i) How do Organisms Reproduce?

4. Complete the practical record book for all Class X Science practical.

5. Project Work (Choose one option):

Option A: Develop an innovative idea related to Class 10 Science chapters and create a project for internal assessment.

Option B: Create an Art Integrated Project based on the chapter Our Environment.

SUBJECT-SOCIAL SCIENCE

MAP ACTIVITY:-

(i) (From the chapter Lifelines of national economy)-On the political map of India locate-

MAJOR SEA PORTS – Kandla (Deendayal) Mumbai, Marmagao, New Mangalore, Kochi, Tuticorin, Chennai, Vishakhapatnam, Paradip, Haldia.

INTERNATIONAL AIR PORTS – Raja Sansi (Guru Ramdas), Indira Gandhi, Chhatrapati Shivaji, Meenam Bakkam, Netaji Subhash Chandra Bose, Rajiv Gandhi.

(ii) (From the Chapter Nationalism in India) Congress sessions:

1920 Calcutta

1920 Nagpur

1927 Madras

(iii) **Satyagraha movements:** Kheda, Champaran, Ahmedabad mill workers

Jallianwala Bagh, Dandi.

(iv) **From the chapter Water Resources)** Salal , Sardar Sarovar, Bhakra Nangal , Hirakund , Tehri,Nagarjun Sagar, Rana Pratap Sagar Tungabhadra.

ACTIVITY-2- Solve 5 years (Any 25) questions that are given below: -

History –

- 1.“The first clear expression of nationalism came with the French Revolution in 1789.” Examine the statement.
2. Briefly trace the process of German unification?
3. What changes did Napoleon introduce to make the administrative system more efficient in the territories ruled by him ?
4. Why did Mahatma Gandhi find in ‘Salt’ a powerful symbol that could unite the nation?
5. How did Non – Cooperation movement start with participation of middle Class people in the cities? Explain its impact on the economic front.

Geography –

1. Distinguish Conventional and non – conventional sources of energy?
2. Why do you think that Solar energy has a bright future in India?
3. Describe the role of industries in the development of country?
4. How can the industrial pollution of fresh water be reduced? Explain.
5. “The textile industry occupies a unique position in the Indian economy.” Explain.
6. Distinguish between Ferrous and non – ferrous Minerals?
7. Why do we need to conserve minerals?
8. Why should we use renewable energy resources? Explain.

Politics –

1. Describe the role of Political Parties in a democracy?
2. What suggestions are often made to reform political parties?
3. What are the challenges faced by political parties in India? Give your Opinion.
4. Mention different aspects of life in which women are discriminated in India
5. How caste inequalities are still continuing in India? Explain
6. Describe any five features of secularism in India?
7. How is caste preferred in politics?

Economics –

1. How is the tertiary sector different from other sectors? Illustrate with a Few examples.
2. Compare the employment conditions prevailing in the organised and Unorganised sectors.
3. Explain the objectives of implementing the MGNREGA 2005?
4. Distinguish between Public and Private Sector?
5. What are the various ways to provide employment opportunities in Rural areas?
6. What is the difference of criteria used by World bank and UNDP
7. Why sustainability is important for development?

SUBJECT-ARTIFICIAL INTELLIGENCE

Important Assignment: Monthly Test Revision

Dear Students,

To reinforce your learning and prepare effectively for your upcoming examinations, you are required to complete this revision assignment directly in your regular AI Class Notebook. You do not need to make or buy any extra homework copy for this; use your existing class notebook.

Your task for this assignment is to completely solve and write down the solutions for Monthly Test 3 and Monthly Test 4 in that notebook. You only need to solve these two specific test papers.

Student Instructions & Responsibilities

1. **Scope of Work:** You are required to solve exactly two papers in total: Monthly Test 3 and Monthly Test 4. Do not write answers for Monthly Tests 1 or 2.
 2. **No Extra Notebook:** Do this work right in your regular AI Class Notebook. No extra separate assignment copies are allowed.
 3. **Paper Collection:** Gathering the test papers is your responsibility. You must ensure you have both question papers. While copies will be shared in our official class group for your convenience, it is your duty as a student to collect, track, and maintain these papers.
 4. **Execution:** All solutions must be meticulously handwritten. Write clean, detailed answers using the appropriate technical terms taught in class.
 5. **Submission:** Your AI class notebook containing the fully solved papers for Monthly Tests 3 and 4 must be submitted immediately upon the reopening of the school.
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Syllabus Coverage Reference

The two test papers you are solving cover the following core areas of your CBSE Class X Artificial Intelligence curriculum. Use this list as a reference checklist to ensure your answers cover all key concepts:

Part A: Employability Skills

1. **Communication Skills-II:** Methods of communication, communication cycle, perspectives in communication, and identifying/overcoming barriers to effective communication.

2. Self-Management Skills-II: Stress management techniques, self-awareness, building self-motivation, and goal setting (SMART goals).
3. ICT Skills-II: Operating system concepts, file management, and computer care, maintenance, and security protocols (anti-virus, phishing, and malware protection).

Part B: Subject-Specific Skills

1. Revisiting AI Project Cycle: Detailed understanding of the framework stages: Data Acquisition, Data Exploration, and the 4Ws Problem Canvas (Who, What, Where, Why).
2. Advanced Concepts of Modeling in AI: Rule-based vs. Learning-based models, and the three main learning paradigms (Supervised, Unsupervised, and Reinforcement Learning).
3. Evaluating Models: The importance of model evaluation, understanding Overfitting, creating a Confusion Matrix, and calculating metrics like Accuracy, Precision, Recall, and F1-Score.