



Lady Florence

CONVENT SCHOOL

HOLIDAY HOMEWORK

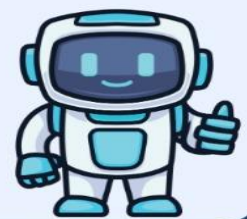
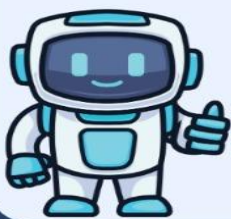
SESSION - 2026-27

GRADE IX



NAME: _____

ROLL NO: _____



Note: -

- *The school will reopen on 6th July, 2026.*
- *Parents can submit the holiday homework between 2nd July to 4th July during school working hours.*

Dear Students,

Kindly follow the given guidelines while completing your Holiday Homework:

- Complete the work neatly and systematically in a separate file/folder as instructed by the subject teacher.
- The work should be creative, innovative, research-based, and connected with real-life applications.
- Include case studies, surveys, newspaper articles, data collection, self-analysis, or experiential learning wherever applicable.
- Avoid copy-pasting from the internet. Originality and independent thinking will be appreciated.
- Use diagrams, charts, mind maps, QR codes, presentations, art integration, and digital tools to enhance your work.
- Maintain good handwriting, proper labeling, presentation, and overall organization.
- Assignments should reflect conceptual understanding, analytical skills, and subject knowledge.
- Reading newspapers, journals, biographies, educational magazines, and reference books during vacations is highly encouraged.
- Practical learning through observation, interviews, field visits, and family interaction should be included wherever possible.
- Submit the Holiday Homework on time after the vacations. Late submission may affect assessment and evaluation.
- Along with academics, students should also focus on physical fitness, hobbies, relaxation, and quality family time for holistic development.
- Complete your work sincerely and make your vacations productive and meaningful.
- Revise the PT-2 syllabus regularly during the vacations for better understanding and retention of concepts.

Holiday Assignment: "Unwind & Imagine"

Dear Students,

This vacation, step away from the academic pressure, turn off your screens, and let your mind relax. There are no strict rules, no themes, and absolutely no pressure to make a "perfect" masterpiece. Your only goal is to create something entirely from your imagination that helps you recharge.

Love and Blessings!!

Guidelines

- **What to Draw:** Anything you want. It could be a dream landscape, an abstract pattern of shapes, a character, or just a stream-of-consciousness doodle.
- **Medium of Choice:** Use whatever you have at home—watercolors, acrylics, color pencils, oil pastels, sketch pens, or just a simple graphite pencil.
- **The Canvas:** You can use a drawing sheet, a page in a sketchbook, a canvas, or even upcycle a piece of cardboard.

Important Reminders

- **Do not be in any hurry** to finish your work of art. Give it time and enjoy the process of making it.
- **Do not copy** or download designs from the internet; let the ideas be entirely your own.
- **Do not stress** about the final result or worry about making mistakes.
- **Do not treat this as a chore** or a rigid academic task—just have fun and create at your own pace.

Reflection Note

- *On the back of your artwork, write a short 2-3 sentence note sharing how you felt while creating it and what your imagination brought to life.*

SUBJECT - ENGLISH

1. Read the passage carefully and answer the following questions:

Reading is one of the best habits a student can develop. Books not only provide knowledge but also improve vocabulary, imagination, and thinking ability. A person who reads regularly becomes more confident and expressive. In earlier times, children spent more time in libraries and enjoyed reading storybooks, newspapers, and magazines. However, today many students spend long hours on mobile phones and social media. As a result, their interest in reading books is decreasing day by day.

Teachers and parents play an important role in developing reading habits among children. Schools should organize reading competitions, storytelling sessions, and library activities to encourage students. Reading also helps students perform better in academics because it improves concentration and writing skills. Good books teach moral values and inspire people to become responsible citizens. Therefore, everyone should make reading a part of daily life.

i) Reading improves our:

- a) anger b) vocabulary c) fear d) weakness

ii) Earlier, children spent more time in:

- a) malls b) playgrounds c) libraries d) cinemas

iii) The interest in reading is decreasing because of:

- a) sports b) television
c) mobile phones and social media d) exams

iv) Schools should organize:

- a) parties b) library activities c) holidays d) trips only

v) Choose the synonym of "encourage":

- a) discourage b) motivate c) punish d) stop

Short Answer Questions

1. How does reading help students?
2. What activities can schools organize to develop reading habits?
3. Why are students losing interest in reading?
4. What do good books teach us?
5. Find a word from the passage meaning "creative thinking".

4. Formal Letter (Roll No. 16–35)

Write a letter to the Editor about the increasing use of mobile phones among students and its harmful effects.

5. Fill in the blanks with the correct form of the verbs given in brackets:

Last summer, Riya _____ (**visit**) her grandparents in the village. Every morning, she _____ (**wake**) up early and _____ (**go**) for a walk near the river. One day, she _____ (**meet**) an old potter who _____ (**make**) beautiful clay pots. He _____ (**work**) very hard and _____ (**teach**) her how to shape clay. Riya _____ (**feel**) excited and _____ (**try**) to make a small pot herself. Although she _____ (**make**) many mistakes, she never _____ (**give**) up. After a few days, she _____ (**learn**) the basic skill of pottery. Her grandparents _____ (**praise**) her efforts and she _____ (**promise**) to visit the potter again.

Nowadays, Riya _____ (**spend**) more time learning creative activities. She _____ (**believe**) that hard work always _____ (**bring**) success. Since then, she _____ (**become**) more confident and _____ (**develop**) interest in traditional art forms.

6. Change into the Mentioned Tense

- a) She writes a poem. (**Past Continuous**)
- b) They are playing cricket. (**Simple Past**)
- c) I completed my homework. (**Present Perfect continuous**)
- d) He goes to school daily. (**Future Continuous**)
- e) We were watching a movie. (**Simple Present**)
- f) Rohan eats an apple. (**Present Continuous**)
- g) The boys played football. (**Future Perfect**)
- h) She is singing a song. (**Simple Future**)
- i) I will visit Jaipur. (**Past Perfect continuous**)
- j) They have finished the project. (**Simple Past**)

7. Fill in the blanks using suitable modals:

- a) You _____ respect your elders.
- b) _____ I borrow your pen?
- c) Students _____ wear proper uniform.
- d) She _____ solve the puzzle easily.
- e) We _____ help the poor.
- f) You _____ not waste water.
- g) _____ you please open the window?
- h) They _____ complete the work today.
- i) I _____ swim when I was five years old.
- j) People _____ follow traffic rules.

8. Notice Writing:

Write a notice about an Inter-House Debate Competition to be held in your school.

9. Theme based collage (Use magazine cut-outs, drawings, and quotes)

Make a collage on themes like:

- Patriotism (Bharat: Our Land)
- Dignity of Labour (Gifts of Grace)
- Education and Determination

Q10. Book Review

Read any one storybook of your choice and write a review including:

- Name of the book
- Author's name
- Main characters
- Summary of the story
- What you liked about the book
- Moral of the story

विषय - हिंदी

अनुक्रमांक- 1से 18

कार्य-पत्रक - 1

भाग क - पाठ्यपुस्तक (गद्य और पद्य)

प्रश्न-1 झूरी के दोनों बैलों के नाम क्या थे? उनके स्वभाव में क्या अंतर था?

प्रश्न-2 लेखक के अनुसार निबंध लिखने की क्या कठिनाइयाँ हैं?

प्रश्न-3 रैदास ने अपने स्वामी (ईश्वर) को किन-किन नामों से पुकारा है?

प्रश्न-4 "कांजीहोस" में कैद जानवरों की दशा कैसी थी? हीरा और मोती ने उन्हें कैसे आजाद कराया?

भाग ख - व्याकरण

प्रश्न-5 निम्नलिखित वाक्यों में से संज्ञा शब्द छाँटकर उनके भेद लिखिए:

(क) हिमालय भारत का गौरव है।

(ख) सच्ची मित्रता दुर्लभ है।

प्रश्न-6 उचित सर्वनाम शब्द भरकर वाक्य पूरे कीजिए:

(क) _____ अपना काम स्वयं करना चाहिए।

(ख) दरवाजे पर _____ खड़ा है।

प्रश्न-7 निम्नलिखित शब्दों से उपसर्ग और मूल शब्द अलग कीजिए:

अधर्म, निर्बल, उपकार।

प्रश्न-8 निम्नलिखित शब्दों में से प्रत्यय और मूल शब्द अलग कीजिए:

मिठास, लिखाई, भारतीय

भाग ग - रचनात्मक लेखन

प्रश्न-9 अपने मित्र को उसके जन्मदिन पर बधाई देते हुए एक पत्र लिखिए।

प्रश्न-10 निम्नलिखित विषय पर लगभग 100-120 शब्दों में अनुच्छेद लिखिए:-

समय का सदुपयोग

(संकेत बिंदु: समय का महत्व, आलस्य की हानि, सफलता की कुंजी)

भाग घ - क्रियात्मक गतिविधि

भक्ति के रंग, प्रतीकों के संग" नामक विषय पर एक पोर्टफोलियो बनाएँ ।

कार्य-पत्रक - 2

अनुक्रमांक- 19 से 38

भाग क - पाठ्यपुस्तक (गद्य और पद्य)

प्रश्न-1 गया के घर हीरा और मोती ने खाना क्यों नहीं खाया? वहाँ उन्हें कैसा महसूस हो रहा था?

प्रश्न-2 लेखक ने 'दूर के ढोल सुहावने होते हैं' कहावत का प्रयोग किस संदर्भ में किया है? स्पष्ट कीजिए।

प्रश्न-3 जाकी अंग-अंग बास समानी" पंक्ति के माध्यम से कवि रैदास क्या कहना चाहते हैं?

प्रश्न-4 दो बैलों की कथा' के माध्यम से प्रेमचंद ने कृषक समाज और पशुओं के भावनात्मक संबंध को किस प्रकार उभारा है?

भाग ख - व्याकरण

प्रश्न-5 निम्नलिखित शब्दों से 'भाववाचक संज्ञा' बनाइए:

बच्चा, सुंदर, वीर, अपना

प्रश्न-6 सर्वनामों के भेद पहचानिए:

(क) वह मेरा घर है।

(ख) जो मेहनत करेगा, सो फल पाएगा।

प्रश्न-7 (क) 'सु' और 'परि' उपसर्ग लगाकर दो-दो नए शब्द बनाइए।

(ख) 'अतिशय' और 'अनुभव' शब्दों में से उपसर्ग अलग कीजिए।

प्रश्न 8 (क) 'ई' और 'ता' प्रत्यय का प्रयोग कर दो-दो शब्द बनाइए।

(ख) 'सफलता' और 'घबराहट' शब्दों में से मूल शब्द और प्रत्यय अलग कीजिए।

भाग ग - रचनात्मक लेखन

प्रश्न-9 अपने क्षेत्र में बढ़ती गंदगी की समस्या की ओर ध्यान आकर्षित करने हेतु नगर निगम अधिकारी को एक शिकायत पत्र लिखिए।

प्रश्न-10 निम्नलिखित विषय पर लगभग 100-120 शब्दों में अनुच्छेद लिखिए:

अनुशासन का महत्व

(संकेत बिंदु: अर्थ, विद्यार्थी जीवन में भूमिका, समाज के लिए लाभ)

भाग घ - क्रियात्मक गतिविधि

भक्ति के रंग, प्रतीकों के संग" नामक विषय पर एक पोर्टफोलियो बनाएँ।

SUBJECT - SCIENCE

General Instructions

- Complete all work neatly and systematically.
- Use a separate notebook for worksheet work.
- Write your name, class, section, and roll number clearly.
- Draw neat labeled diagrams wherever required.
- Submit the holiday homework on the given date.

Worksheet – 1 (Roll Numbers 1–20)

A. Conceptual Questions

- a) Differentiate between xylem and phloem.
- b) Write the electronic configuration of Oxygen.
- c) Why is blood called a connective tissue?
- d) Differentiate between atomic number and mass number.
- e) What is the function of nervous tissue?

B. Numerical Based Questions

- a) A car starts from rest and its velocity reaches 24 m s^{-1} in 6 s. Find the average acceleration and the distance travelled in these 6 s.
- b) A bus is travelling at 36 km h^{-1} when the driver sees an obstacle 30 m ahead. The driver takes 0.5 s to react before pressing the brake. Once the brake is applied, the velocity of the bus reduces with constant acceleration of 2.5 m s^{-2} . Will the bus be able to stop before reaching the obstacle?

C. Competency-Based Questions

- a) A gardener noticed that a plant was not receiving enough water even after regular watering. The xylem tissue was found damaged. Explain the role of xylem in plants.

- b) A student made an atom model but placed electrons inside the nucleus. Identify the mistake and explain the correct structure of an atom.
- c) A person suffered excessive bleeding during an accident. Explain why blood is considered an important connective tissue.

D. Case based question

A science student observed that two atoms of chlorine had the same atomic number but different mass numbers. The teacher explained that such atoms are called isotopes and are useful in many fields like medicine and scientific research.

➤ Answer the following Questions

- a) What are isotopes?
- b) Why do isotopes of an element have different mass numbers?
- c) Which quantity remains the same in isotopes?
- d) Write one use of isotopes.
- e) Name one isotope of hydrogen.

E. Project Work

Project Title: Build Your Own Atom"

Instructions:

- a) Prepare a 3D model of any atom using balls, clay, beads, or waste materials.
- b) Show:
 - Protons
 - Neutrons
 - Electrons
 - Electron shells
3. Label all parts neatly.
4. Write:
 - Atomic number
 - Mass number
 - Electronic configuration
5. Present the model creatively using colours and charts.

Worksheet – 2 (Roll Numbers 21–40)

A. Conceptual Questions

- a) Differentiate between atomic number and mass number.
- b) State any two limitations of Rutherford's atomic model.
- c) Write any two functions of epithelial tissue.
- d) Name the tissue responsible for transport of water in plants.
- e) Which tissue provides flexibility to plants?

B. Numerical based questions

- a) During a family road trip, you drive 200 km north in three hours. Afterwards, you drive 200 km south in two hours. Find the average speed and average velocity for your entire trip.

- b) A student runs from the ground floor to the fourth floor of a school building to collect a book and then comes down to classroom on the second floor. If the height of each floor is 3m, find:
 - (i) the total vertical distance travelled, and
 - (ii) their displacement from the starting point.

C. Competency-Based Questions

- a) Two atoms of chlorine have the same atomic number but different mass numbers. What are such atoms called? Explain.
- b) A patient's muscles became weak after an injury. Which type of tissue helps in body movement? Explain its role.
- c) A science student prepared a 3D model of an atom using coloured balls. Which subatomic particles should be present in the nucleus?

D. Case Study

Rohan observed that the stem of a plant remained upright even during strong winds. His teacher explained that certain tissues provide strength and support to plants. He also learned that some tissues help in transporting water and food throughout the plant body.

Answer the following questions:

- a) Which tissue provides mechanical support to plants?
- b) Name the tissue responsible for transport of water in plants.
- c) Which tissue transports food from leaves to other parts of the plant?
- d) Why are supporting tissues important for plants?
- e) Name the vascular tissues present in plants.

E. Project Work

Project Title: "Tissue Detective - Exploring the Living World"

Objective: To understand different plant and animal tissues through creative models and real-life examples.

Instructions for Students:

1. Prepare a creative scrapbook, chart, or 3D model on different types of tissues.

2. Divide the project into two sections:

- a) Plant Tissues
- b) Animal Tissue

3. Include the following tissues:

- Meristematic Tissue
- Parenchyma
- Collenchyma
- Sclerenchyma
- Xylem and Phloem
- Epithelial Tissue
- Connective Tissue
- Muscular Tissue
- Nervous Tissue

4. For each tissue, mention:

- Structure
- Function
- Location in the body/plant
- One interesting fact

SUBJECT – SOCIAL STUDIES

ASSIGNMENT -1

Roll Numbers: 1 – 18

Section A – Multiple Choice Questions

1. Which of the following statements correctly explains climate?
 - a) Sudden atmospheric changes occurring daily
 - b) Average weather conditions over a long period
 - c) Wind direction at a particular time
 - d) Temperature recorded for one day only

2. The decrease in temperature with increase in altitude mainly occurs in:
 - a) Troposphere
 - b) Thermosphere
 - c) Exosphere
 - d) Mesosphere

3. Which factor is mainly responsible for coastal regions experiencing moderate climate?
 - a) Distance from the sea
 - b) Latitude only
 - c) Soil type
 - d) Population density

4. “Loo” is:
 - a) cold wind blowing from mountains
 - b) A local hot and dry wind of Northern India
 - c) A monsoon wind bringing rainfall
 - d) A cyclone formed over oceans

5. Which of the following gases helps trap heat in Earth’s atmosphere?
 - a) Oxygen
 - b) Nitrogen
 - c) Carbon dioxide
 - d) Hydrogen

6. Which statement best defines democracy?
 - a) Rule by hereditary kings
 - b) Rule by military leaders
 - c) Government elected by the people
 - d) Government controlled by judges

7. In a democracy, final decision-making power rests with:
 - a) Army officials

- b) Elected representatives
- c) Religious leaders
- d) Industrialists

8. Which of the following is NOT a feature of democracy?

- a) Universal Adult Franchise
- b) Accountability of government
- c) One-party dictatorship
- d) Rule of law

9. Why are regular elections important in democracy?

- a) To strengthen dictatorship
- b) To allow citizens to change rulers peacefully
- c) To remove the Constitution
- d) To increase military power

10. Which democratic value is reflected when every citizen gets equal voting rights?

- a) Liberty
- b) Equality
- c) Justice
- d) Monarchy

Section B - Case Study Based Questions

Case Study – 1 (Atmosphere and Climate)

During a Geography project, students compared the climate of Jaipur and Mumbai. They observed that Jaipur experiences extremely hot summers and cold winters, while Mumbai has moderate temperatures throughout the year. During monsoon season, Mumbai receives heavy rainfall due to moisture-laden winds from the Arabian Sea.

The teacher explained that distance from the sea, winds, and location play an important role in determining climate. Coastal regions generally have moderate temperatures because the sea heats and cools slowly compared to land.

Answer the following questions:

- a) Why does Mumbai experience moderate climate?
- b) Which winds bring heavy rainfall to Mumbai?
- c) Why does Jaipur experience extreme temperatures?
- d) Mention any two factors affecting climate.
- e) Differentiate between weather and climate.

Case Study – 2 (Democracy)

In a democratic country, the government proposed a new education policy. Students, teachers, and parents shared their opinions through discussions, newspapers, and public meetings. Opposition leaders raised questions in Parliament and demanded changes in certain rules.

After public debate, the government modified some parts of the policy according to people's suggestions.

Citizens appreciated that their voices were heard and decisions were taken after discussion.

Answer the following questions:

- a) Which feature of democracy is shown in the case study?
- b) Why is public opinion important in democracy?
- c) Which institution discussed the education policy?
- d) How did the government show accountability?
- e) Mention any two features of democracy reflected in the case study.

ASSIGNMENT -2

Roll Numbers: 19 – 37

Section A – Multiple Choice Questions

1. Which layer of atmosphere contains most weather-related activities?
 - a) Stratosphere
 - b) Troposphere
 - c) Mesosphere
 - d) Thermosphere

2. Which of the following is an element of climate?
 - a) Judiciary
 - b) Humidity
 - c) Election
 - d) Citizenship

3. The ozone layer is important because it:
 - a) Produces rainfall
 - b) Reflects sound waves
 - c) Protects Earth from harmful ultraviolet rays
 - d) Causes global warming

4. Why do mountain regions remain cooler than plains?
 - a) Higher air pressure
 - b) Thick forests only
 - c) Increase in altitude lowers temperature
 - d) Distance from rivers

5. Which instrument is used to measure atmospheric pressure?
 - a) Thermometer
 - b) Rain gauge
 - c) Hygrometer

d) Barometer

6. Which of the following is considered the best form of government?

- a) Dictatorship
- b) Monarchy
- c) Democracy
- d) Military rule

7. Universal Adult Franchise means:

- a) Voting rights for educated citizens only
- b) Voting rights for all adults above a certain age
- c) Voting rights for men only
- d) Voting rights for taxpayers only

8. In democracy, laws are made by:

- a) Military officers
- b) Parliament or Legislature
- c) Religious groups
- d) Media houses

9. Which democratic principle allows citizens to criticize the government?

- a) Equality
- b) Freedom of expression
- c) Monarchy
- d) Hereditary rule

10. A government responsible to the people is called:

- a) Dictatorial government
- b) Colonial government
- c) Accountable government
- d) Absolute monarchy

Section B – Case Study Based Questions

Case Study – 1 (Atmosphere and Climate)

A group of students visited Shimla during summer holidays. They noticed that even in June, the weather remained cool and pleasant, unlike the nearby plains where temperatures were extremely high. The guide explained that places situated at higher altitudes experience lower temperatures because temperature decreases with height.

The students also observed that weather conditions changed frequently in the mountains. Sometimes it was sunny, while at other times clouds and rainfall appeared suddenly.

Answer the following questions:

- a) Why was Shimla cooler than the plains during summer?
- b) Which factor mainly affects the climate of mountain regions?
- c) What does the changing weather in mountains indicate?
- d) Mention any two elements of climate.
- e) Name the layer of atmosphere where weather changes occur.

Case Study – 2 (Democracy)

During local elections, citizens of a town participated actively by attending rallies, discussing issues, and casting their votes. After winning the election, the representatives promised to improve roads, schools, and sanitation facilities.

A few months later, citizens complained about poor water supply. The local representatives listened to the people's concerns and raised the issue before the municipal council for immediate action.

This situation showed that democratic governments must respond to the needs of citizens and remain answerable to the public.

Answer the following questions:

- a) Which democratic right was exercised by citizens during elections?
- b) Why are elections important in democracy?
- c) How did the representatives show accountability?
- d) Which institution was approached to solve the issue?
- e) Mention one advantage of democracy shown in the case study.



PROJECT WORK

GROUP 1 (Roll no 1-12) – CREATIVE CHART

Topic: Climate Change and Sustainable Development

- ✓ Prepare a creative chart showing:
- ✓ Causes and effects of climate change
- ✓ Pollution and environmental issues
- ✓ Sustainable development ideas
- ✓ Ways to protect the environment

Add:

- ✓ Flowcharts or mind maps
- ✓ Eco slogans
- ✓ Drawings/newspaper cuttings

- ✓ Facts and awareness messages

GROUP 2 (Roll no 13-24) – RESEARCH BOOKLET

Topic: Democracy, Elections and Responsible Citizenship

- ✓ Prepare a creative booklet including:
- ✓ Meaning and features of democracy
- ✓ Importance of elections
- ✓ Rights and duties of citizens
- ✓ Role of youth in democracy
- ✓ Current examples from India

Add:

- ✓ Political cartoons
- ✓ Fact files
- ✓ Newspaper articles
- ✓ Self-made slogans/chart

GROUP 3 (Roll no 25-37) – CREATIVE POSTER

Topic: Unity in Diversity of India

- ✓ Design a creative poster showing:
- ✓ India's cultural diversity
- ✓ Festivals, traditions, and languages
- ✓ National unity and harmony
- ✓ Heritage and cultural symbols

Add:

- ✓ Creative slogans
- ✓ Map-based creativity
- ✓ Cultural artwork/designs
- ✓ Colorful presentation
- ✓ Creative Newspaper Activity

➤ Common Activity for All Groups

“My Weekly News Diary”

Read one interesting newspaper article every week and create a fun diary entry about it in your notebook/file Include:

News headline:

- ✓ One picture/cutting related to the news

- ✓ 3–4 lines about what happened

“My Thoughts” – write what you learned or felt about the news

Students can decorate their pages with colors, borders, doodles, stickers, or creative captions to make their News Diary attractive and informative.

Mention:

- a) Date of news
- b) Heading
- c) Summary in 5–6 lines
- d) Your opinion about it
- e) Submission Date-Homework will be submitted after the summer vacation in the first week of school reopening.

SUBJECT – MATHEMATICS

General Instructions:

- **Read all questions carefully before answering.**
- **Show complete steps and calculations wherever necessary.**
- **Use graph paper for coordinate geometry questions if required.**
- **Draw neat and labelled diagrams for geometry questions.**
- **Attempt all questions.**
- **Maintain proper presentation and handwriting.**

1. Define irrational numbers with two examples.
2. Represent $\sqrt{5}$ on the number line.
3. Find the decimal expansion of $\frac{7}{8}$ and state whether it is terminating or non-terminating.
4. Express $0.333\dots$ in the form of $\frac{p}{q}$.
5. Simplify: $(\sqrt{3} + \sqrt{2})(\sqrt{3} - \sqrt{2})$.
6. Find the value of $(5 + \sqrt{2})(5 - \sqrt{2})$.
7. Locate the points A(2,3), B(-1,4), and C(0,-2) on a graph paper.
8. State the quadrant in which the point (-4,5) lies.
9. Write the coordinates of a point lying on the x-axis.
10. Plot the points (3,0), (0,5), and (-2,-3) on the Cartesian plane.
11. Identify the origin in the Cartesian plane.

12. Find the value of the polynomial $2x^2 + 3x - 5$ when $x = 2$.
13. Find the zero of the polynomial $x - 7$.
14. Write the degree and coefficient of x^2 in the polynomial $4x^2 - 3x + 6$.
15. Classify the polynomial $5x^3 + 2x^2 - x + 1$ according to its degree.
16. Find the remainder when $x^2 + 5x + 6$ is divided by $x + 2$.
17. Verify whether $x = -1$ is a zero of the polynomial $x^2 + 2x + 1$.
18. Add the polynomials: $(2x^2 + 3x + 4)$ and $(x^2 - x + 5)$.
19. Subtract the polynomial $(x^2 - 2x + 3)$ from $(3x^2 + x - 1)$.
20. Multiply: $(x + 2)(x + 5)$.

Real Life Based Activities

Activity 1: Mapping your room Using Coordinate Geometry (For Odd roll no.)

Measure the length and width of your room. Create a coordinate plane and mark the positions of doors, windows, study table, chair, and wardrobe etc. using coordinates.

Write the coordinates of at least 10 objects.

Activity 2: Exploring Polynomials in Daily Life (For Even roll no.)

Observe any real-life object such as a garden, playground, or rectangular floor tile. Form algebraic expressions to represent its area and perimeter.

Explain how polynomials are useful in solving practical measurement problems.

SUBJECT – INFORMATION TECHNOLOGY

Section A – Multiple Choice Questions

1. Communication means:

- a) Sleeping
 - b) Sharing information
 - c) Playing games
 - d) Drawing
2. Which of the following is a verbal communication method?
- a) Facial expression
 - b) Speaking
 - c) Hand movement
 - d) Sign language
3. Email is an example of:
- a) Written communication
 - b) Non-verbal communication
 - c) Visual communication
 - d) None of these
4. Which skill is important for effective communication?
- a) Listening
 - b) Ignoring
 - c) Anger
 - d) Laziness
5. Body language is a type of:
- a) Verbal communication
 - b) Written communication
 - c) Non-verbal communication
 - d) Digital communication
6. Self-management means:
- a) Managing others
 - b) Managing oneself
 - c) Managing school
 - d) Managing money
7. Which of the following helps in time management?
- a) Making a timetable
 - b) Watching TV all day
 - c) Wasting time
 - d) Sleeping late
8. Self-confidence helps a person to:
- a) Feel nervous
 - b) Avoid work
 - c) Believe in oneself

d) Fight with others

9. Stress can be reduced by:

- a) Exercise
- b) Proper sleep
- c) Meditation
- d) All of these

10. Goal setting helps to:

- a) Waste time
- b) Stay focused
- c) Create confusion
- d) Avoid studies

Section B – Short Answer Questions

11. Define communication.

12. Write any two barriers to communication.

13. What is active listening?

14. Define self-management skills.

15. Write any two qualities of a self-confident person.

16. What is stress management?

17. Mention two advantages of time management.

18. Differentiate between verbal and non-verbal communication.

Section C – Case Study Based Questions

Case Study 1: Communication Skills

Riya is the class monitor. During group discussions, she listens carefully to everyone and speaks politely. Because of this, her classmates understand her instructions clearly.

Answer the following questions:

1. Which communication skill is shown by Riya?
2. Why is polite speaking important?
3. Identify one verbal and one non-verbal communication method used in classroom discussions.

Case Study 2: Self-Management Skills

Aman has exams next week. He prepares a timetable, studies daily, sleeps on time, and practices yoga in the morning. He feels relaxed and confident.

Answer the following questions:

1. Which self-management skill is shown by Aman?
2. How does yoga help Aman?
3. Why is making a timetable useful for students?

Section D – Activity Based Tasks

Activity 1: Communication Activity (For Odd roll no.)

Role Play Activity - Form pairs in class and prepare a short conversation between:

- Teacher and student OR
- Shopkeeper and customer

Use:

- Proper greetings
- Polite language
- Good body language

Write five lines of the conversation below:

Activity 2: Self-Management Activity (For Even roll no.)

My Daily Timetable: Prepare your daily timetable showing:

- Study time
- Exercise time
- Hobby time
- Sleep time

Section E – Practical/Application Questions

- Prepare a poster on “Time Management for Students”.
- List five ways to improve self-confidence.

SUBJECT –VALUE EDUCATION

1. Integrity – “The Test Paper Mistake”

Case Study:

During a surprise math test, Aarav noticed the teacher had accidentally left the answer key visible on her desk. No one else saw it. He could have copied a few answers and improved his score, but he felt uneasy. He reminded himself that integrity means doing the right thing even when no one is watching. After the test, he quietly told the teacher about the mistake. The teacher thanked him, rescheduled the test, and told the class about Aarav's honesty. Aarav didn't get a higher score that day, but he earned the teacher's trust.

Tick the correct answer:

1. What did Aarav notice during the test?
 - a) The answer key was visible on the teacher's desk
 - b) The questions were too hard
 - c) His friend was cheating
2. Why didn't Aarav copy the answers?
 - a) He knew all the answers already
 - b) He was afraid of getting caught
 - c) He believed in doing the right thing even when unobserved
3. What did the teacher do after learning about the mistake?
 - a) Thanked Aarav and rescheduled the test
 - b) Punished the class
 - c) Ignored it
4. What does this story show about integrity?
 - a) It only matters in exams
 - b) It is not practical in real life
 - c) It builds trust and self-respect

Short Answer & Reflection:

1. Write 8 sentences: Describe a situation where telling the truth was difficult. What helped you choose honesty or dishonesty?
2. Activity: Integrity Check – For 3 days, note one small decision where you chose honesty over convenience. Write a 2-line reflection on how it felt.

2. Discipline – “The 6 AM Challenge”**Case Study:**

Riya wanted to qualify for the district athletics team, but she struggled with early morning practice. Her alarm rang at 6 AM, and she often hit snooze and missed training. Her coach told her, “Discipline is choosing what you want most over what you want now.” Riya made a plan: she kept her phone outside the room, set two alarms, and slept 30 minutes earlier. The first week was hard, but by the third week, waking up early felt normal. She improved her timing and made it to the team.

Tick the correct answer:

1. Why did Riya miss practice initially?

- a) She was injured
- b) The practice was cancelled
- c) She hit snooze and slept late

2. What advice did the coach give?

- a) Practice only when motivated
- b) Choose long-term goals over short-term comfort
- c) Quit if it feels hard

3. What change helped Riya improve?

- a) Adjusting sleep schedule and removing distractions
- b) Changing her coach
- c) Practicing less

4. What is the core idea of discipline in this story?

- a) Doing everything perfectly
- b) Avoiding difficult tasks
- c) Consistent effort and self-control to reach a goal

Short Answer & Activity:

- 1. Write 8 sentences: What is one goal you struggle to stay disciplined about? What is one small system you can set up to make it easier?
- 2. Activity: Discipline Tracker – Choose one habit for 7 days, like 20 minutes of reading or 15 minutes of exercise. Mark a ✓ each day you complete it. Write one sentence on what made it easy or hard.

Note for Parents:

Encourage students to discuss these dilemmas openly. The goal is self-awareness and applying values to real situations, not just memorizing definitions.

Students are instructed to complete the Holiday Homework neatly in their Moral Education Notebook and on the worksheets provided only.