

HOLIDAY HOMEWORK

CLASS IX

SESSION 2026-27



DELHI PUBLIC SCHOOL

ROURKELA



ENGLISH

1. Letter Writing

You are a resident of Shivaji Nagar Pune. You are concerned about the increasing number of road mishaps in your city. Write a letter to the editor of a local magazine "Jan Chetna" highlighting the problem and suggesting measures to check the problem.

2. Unseen Passage

Riya had always been fascinated by the night sky. Living in a small town away from the city lights, she had the perfect view of the stars. Every evening after finishing her homework, she would climb up to her terrace and gaze at the vast sky above her. Her grandfather, a retired science teacher, often joined her and shared stories about constellations, planets, and galaxies.

One night, as they sat together, her grandfather pointed towards a bright object and said, "That is Venus, often called the Evening Star." Riya was amazed to learn that it was not a star but a planet. This sparked her curiosity even more, and she began reading books about space and astronomy.

Over time, her interest grew stronger. She started maintaining a journal where she noted down her observations and sketches of the moon's phases. Her dedication did not go unnoticed. Her science teacher encouraged her to participate in a national-level astronomy quiz. Though she felt nervous at first, Riya decided to give it a try.

With consistent effort and guidance from her teachers and grandfather, Riya performed exceptionally well and secured second place in the competition. This achievement boosted her confidence and strengthened her dream of becoming an astronomer one day.

Riya's journey shows that curiosity, when nurtured with patience and support, can lead to remarkable accomplishments.

Questions

A. MCQs (1 mark each)

- I. Why did Riya have a clear view of the stars?
 - a) She used a telescope
 - b) She lived in a small town
 - c) She stayed awake all night
 - d) She went to a hill station



★ II. Who inspired Riya's interest in astronomy?

- ★ a) Her friend
- ★ b) Her science teacher
- ★ c) Her grandfather
- ★ d) Her parents

★ III. What is Venus often called?

- ★ a) Morning Star
- ★ b) Evening Star
- ★ c) Bright Planet
- ★ d) Night Light

★ IV. What did Riya maintain to record her observations?

- ★ a) A diary
- ★ b) A journal
- ★ c) A notebook
- ★ d) A chart

★ V. Where did Riya go every evening?

★ VI. Who was Riya's grandfather?

★ VII. What did Riya start reading?

★ VIII. Complete the Sentences (1 mark each)

★ Riya secured _____ place in the national-level astronomy quiz.

★ IX. Find words from the passage that mean:

- ★ a) Very large or wide → _____
- ★ b) Encouraged or supported → _____

★ 3. Do as Directed- Change the sentences according to the instruction.

- ★ 1. She has written a novel. (Simple Present tense)
- ★ 2. The masons will be building the house. (Present perfect tense)
- ★ 3. Mother makes delicious cakes. (Simple Future tense)
- ★ 4. I will never forget this experience. (Simple past tense)
- ★ 5. She was writing a letter. (Future Continuous tense)



3. Art Integrated Project (Forests, Biodiversity and Livelihood)
4. Inter Disciplinary Project (Entrepreneurship and Startup))
5. Update your notebooks as per the syllabus covered.
6. The Q/A work will be done in a separate long notebook.

Guidelines for the project:

1. Projects should be done in the project paper which is to be stapled.
2. The cover page must be headed with "SOCIAL SCIENCE PROJECT"
3. The first page will contain: Project title, School name, Student's name, Class, Section, Roll no. and Academic Session.
4. Acknowledgement
5. List of contents
6. Project overview: Purpose, aim and experience while doing the project.
7. Content elaboration
8. Conclusion
9. Bibliography
10. Paste or draw relevant pictures for the topics.

Questions based on April and May portion

Chapter 1 Social Science: Meaning, Scope and Importance

1. Social Science is best described as:
 - a. Study of only history
 - b. Study of society in a careful, organised and systematic way
 - c. Study of numbers only
 - d. Study of natural science only
2. Who described social science as a body of knowledge related to human affairs?
 - a. Isaac Newton
 - b. Charles Beard
 - c. Albert Einstein
 - d. James High
3. Social science helps us understand that society is:
 - a. Fixed and unchangeable
 - b. Shaped by human choices and actions
 - c. Controlled only by nature
 - d. Always the same
4. Which discipline focuses on understanding variations between places on Earth?
 - a. History
 - b. Economics
 - c. Geography
 - d. Political science
5. Assertion (A): Political Science is closely linked to our daily life.
Reason (R): We experience governance when we use public services.

- 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 of A.
 - c. A is true, but R is false.
 - d. A is false, but R is true.
6. The given picture is an expressway, which indicates?



- a. Poor connectivity
- b. Economic development
- c. Cultural decline
- d. Environmental damage

Very Short Answer Type Questions: (2 marks)

7. What is Remote Sensing? How is it used by the geographers?
8. Why is it important to study major historical events instead of only memorising dates?

Short Answer Type Questions: (3 marks)

9. Explain how the Constitution act as a guiding framework for public life.
10. What is equity? State example to show how it is reflected in public decisions.
11. What is meant by inclusivity? How do everyday actions reflect inclusivity in society?

Long Answer Type Questions: (5marks)

12. Explain the relevance of social science through society, environment, economy and governance.
13. Discuss the meaning of society and explain how relationships and institutions together shape social life.
14. Explain the scope of Social Science by describing the roles of Geography, History, Political Science and Economics and explain how these disciplines connect and overlap in real-life situations.

15. Case- based question

Diversity means recognising and respecting differences among people. These differences may be seen in language, religion, region, caste, tribe, gender, age, occupation, physical ability, food habits, clothing and cultural practices. Diversity exists naturally because communities have different histories, environments and traditions. Understanding diversity involves more than noticing difference. It means understanding how diversity enriches society. In India, the variety of languages and cultural traditions can

be seen in festivals, art, local crafts, architecture, music and food. When we respect this variety, we strengthen social harmony and build a wider sense of belonging,

- ★i.What is meant by diversity? Explain how diversity exists naturally in our society?
- ★ii.What does understanding diversity mean beyond just noticing differences?
- ★iii.How does respecting diversity strengthen social harmony?

Chapter - Understanding Democracy

1. What does the word 'demos' mean?
 - a. Power
 - b. Rule
 - c. People
 - d. Government
2. Which of the following is the correct meaning of democracy?
 - a. Rule by kings
 - b. Rule by the military
 - c. Rule by the people
 - d. Rule by priests
3. In ancient Athens, who can vote?
 - a. Only rich people
 - b. Only women
 - c. All adult male citizens
 - d. Only soldiers
4. Who defined democracy as "government of the people, by the people, for the people".
 - a. George Washington
 - b. Abraham Lincoln
 - c. Thomas Jefferson
 - d. Napoleon Bonaparte
5. What does the given picture represent?



- a. Independent India's first election held in 1951- 52
- b. Rule of law
- c. Right to Information (RTI) Act, passed by the Indian parliament

d. Citizens have the right to form association, unions and political parties.

6. The Gupta period is known for progress in:

- a. Only agriculture
- b. Art, science and literature
- c. Only warfare
- d. Trade only

7. Assertion (A): Ancient Indian political systems had no elements of democracy.

Reason (R): Institutions like Sabha and village councils existed in early India.

- 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 of R.
- c. A is true but R is false.
- d. A is false but R is true.

Very Short Answer Type Questions:(2 marks)

8. Describe the features of the Vajji Republic.

9. What is the meaning of 'Vasudhaiva Kutumbakam'? How is it related to democracy?

10. What is meant by the 'Rule of Law'?

11. Explain the role of Sabha and Samiti in Vedic society.

Short Answer Type Questions: (3marks)

12. What do you know about the Panchayat system in ancient India?

13. What are the major alternatives to democracy as forms of government? Explain each.

Long Answer Type Questions: (5 marks)

14. Discuss the challenges faced by modern democracies.

15. Trace the roots of democracy in ancient India.

16. Explain the significance of regular elections in maintaining democratic values.

17. Case- based question

What do we understand by the word people? The Greeks did not give the voting rights to women, slaves or foreigners, therefore it was not universal franchise. Switzerland granted women the right to vote at the federal level in 1971. It practises direct democracy through referendums and popular initiatives, though not all government decisions are decided directly by citizens. In a vast and populous country like India, it is not practical to adopt direct democracy at the national level, therefore, India follows representative democracy.

i. Explain why democracy in ancient Greece was not based on universal adult franchise?

ii. What is referendum and how is it used in Switzerland's system of governance?

iii. How are decisions made in a parliamentary democracy?

Chapter: Why Choices Matter: The Basics of Economics.

1. In a market economy, prices are mainly determined by:

- a. Government orders

b. Demand and supply

c. Social norms

d. Labour unions

2. Production refers to:

e. Use of goods

f. Sharing of income

g. Creation of goods and services

h. Collection of taxes

3. A centrally planned economy aims mainly at:

a. Profit maximization

b. Competition

c. Social welfare and Equality

d. Private ownership

4. Consider the following statements regarding opportunity cost:

i. Choosing to study instead of watching television involves giving up leisure time.

ii. The time spent studying represents the opportunity cost of watching television.

iii. Every choice made using limited resources involves a trade off.

iv. Opportunity cost only applies to decisions involving money.

Which of the statements given above are correct?

a. 1 and 4 only

b. 1 and 3 only

c. 1,2 and 3 only

d. 1,2,3 and 4

5. Social safety nets are designed to:

a. Increase profits

b. Protect vulnerable sections

c. Promote luxury goods

d. Reduce exports

6. Picture 1 shows a farmer with limited land deciding whether to grow wheat or sugarcane.

Which economic concept is best illustrated in this situation?



a. Opportunity Cost

b. Public goods

c. Unlimited resources

d. Inflation

7. A student has only three days left before final examinations but has five subjects to revise thoroughly. Due to limited time, the student must decide how to allocate study hours among subjects. Which of the following best illustrates the economic concept involved in this situation?

- a. The availability of unlimited natural resources.
 - b. The elimination of choice due to fixed schedules.
 - c. The problem of scarcity arising from limited time and unlimited needs.
 - d. The absence of opportunity cost in academic decisions.
8. Assertion (A) : Scarcity exists in all economies.
Reason(R) : Resources are limited while wants are unlimited.

- 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 of R.
- c. A is true but R is false.
- d. A is false but R is true

Very Short Answer Type Questions:(2 marks)

- 9. What role does the government play in a welfare economy?
- 10. How does opportunity cost help in decision making?
- 11. How does a mixed economy maintain balance growth and welfare?
- 12. Explain trade- off with an example.

Short Answer Type Questions: (3 marks)

- 13. Explain the concept of scarcity and the need for choice with suitable examples.
- 14. Write down the role of economists in solving real life economic problems.
- 15. Discuss the role of the government in a welfare economy.
- 16. How does economic analysis help us in understanding real life issues.
- 17. Compare market, centrally planned and mixed economies.

Long Answer Type Questions:(5 marks)

- 18. Explain three central problems of an economy with examples.
- 19. Define Production, Distribution and Consumption with examples.

20. Case- based question:

Read the passage carefully and answer the questions:

During the COVID 19 pandemic, the government increased spending on Healthcare, provided free food grains under the Public Distribution System, and launched relief packages for businesses. At the same time, some infrastructure projects were postponed due to limited funds.

- i. Identify the central problem highlighted in the passage.
- ii. What is the opportunity cost of increasing healthcare spending?
- iii. How does this example reflect features of a welfare economy?

Note:

A. Individual Project:

Refer:

- i. Part I- Theme II: Chapter 2 (Landforms Earth's living canvas)

ii. Part II- Theme I: Chapter 2 (Disaster preparedness and regulatory framework)

- a. Submit your project in a project file
- b. It should be handwritten only.
- c. Page limitation- 15 to 20 pages
- d. Date of Submission - 1st week of July 2026

B. Art integrated project-

How to proceed for the project:

1. Cover page

Title of the project: Art Integrated Project

Topic: Punjab and Odisha Forests, biodiversity and livelihood.

Class and Section:

Roll no.:

School name:

2. Certificate

3. Acknowledgement

4. Index

5. Introduction

6. Main body of the project:

i. Write about Punjab and Odisha (4 to 5 pages)

ii. Comparison of the resources between both the states (4 to 5 pages).

*The project is to be decorated with art forms of Odisha and Punjab.

*Project should be handwritten.

*Submit your project in project file

Date of submission: 1st week of July 2026

C. Interdisciplinary project

1. Title of the project:

2. Date of starting and submitting the project to be mentioned in the beginning.

3. Its a group project, to be done with members ranging between 5 to 10 from the same section only.

4. Learning objectives to be mentioned properly in the beginning of the project.

100) which of the following is a constant polynomial?

- a. $4x+1$ b. 3 c. $2x^2$ d. $6x+1$

SCIENCE

Holiday Homework

1. Individual Project
2. Questions and Answers
 - I. Assertion and Reason
 - II. Short Questions
 - III. Case-based Questions
3. The work of Physics, Chemistry and biology shall be done in one long notebook.

Biology

1. Individual Project

Topic: Fundamental Unit of life

Mode of preparation:: Handwritten

Mode of submission: Hard copy

Page 1:

Name of the school:

Subject:

Class:

Roll No:

Name of the student:

Page 2: Title of the project:

Page 3: Introduction

Page 4: Discovery of cell(contribution of different scientists), cell theory

Page 5: Types of cell(Diagram of plant, animal and Prokaryotic cells)

Page 6: Cell organelles (Explain about any five with their structure and function)

Important :: It's an individual project which every child has to submit. According to the latest syllabus released by CBSE, this project is mandatory for each and every student.

Note- Prepare the project in loose project sheets(both side ruled), staple them and submit.

No stick or project file is required.

Date of Submission - On the day of reopening after summer vacation

2. Answer the following

b) Unicellular and Multicellular organisms

4. Why is plasma membrane called Selectively permeable membrane?

5. What are the consequences of the following conditions?

a) A cell containing higher water concentration than surrounding medium.

(Hypertonic condition)

b) A cell having low water concentration than the surrounding medium. (Hypotonic condition)

c) A cell having equal water concentration to its surrounding medium. (Isotonic condition)

Physics

2. Answer the following

I. Assertion and Reason

Directions: In each of the following questions, a statement of Assertion is given, and a corresponding statement of Reason is given just below it. Of the statements, given below, mark the correct answer as:

(a) Both assertion and reason are true, and reason is the correct explanation of assertion.

(b) Both assertion and reason are true, but reason is not the correct explanation of assertion.

(c) Assertion is true, but reason is false.

(d) Assertion is false, but reason is true.

1. **Assertion (A):** A body moving in a circular path has acceleration.

Reason (R): Velocity changes due to change in direction.

2. **Assertion (A):** If displacement is zero, velocity must be zero.

Reason (R): Velocity depends on displacement.

3. **Assertion (A):** Speed is always positive.

Reason (R): Speed is a scalar quantity.

4. **Assertion (A):** A body can have zero velocity and still have acceleration.

Reason (R): Acceleration is rate of change of velocity.

5. **Assertion (A):** Uniform velocity means zero acceleration.

Reason (R): Velocity remains constant in uniform motion.

6. **Assertion (A):** Distance is always greater than displacement.

Reason (R): Displacement is the shortest distance between two points.

7. **Assertion (A):** The slope of a velocity-time graph gives acceleration.

Reason (R): Velocity changes with time.

8. **Assertion (A):** Area under a distance-time graph gives velocity.

Reason (R): Distance-time graph represents motion.

9. **Assertion (A):** Acceleration can be zero even when velocity is not zero.

Reason (R) : Acceleration depends on change in velocity.

10. **Assertion (A):** A body moving with constant speed in a circle has constant velocity.

Reason (R) : Velocity changes due to change in direction.

II. Short Questions

the following connecting the species X, Y and P is correct?

- | | |
|------------------------|-------------------------------|
| i) P is a compound | ii) X and Y are compounds |
| iii) X, Y are elements | iv) P has a fixed composition |
| a) (i), (ii), (iii) | b) (i), (ii), (iv) |
| c) (ii), (iii), (iv) | d) (i), (iii), (iv) |

Q2. Which of the following is not a property of metal?

- | | |
|-------------|--|
| a) Lusture | b) Malleable |
| c) Sonorous | d) Bad conductor of heat and electricity |

Q3. Which of the following is not a metalloid?

- | | |
|--------------|-------------|
| a) Silicon | b) Antimony |
| c) Germanium | d) Vanadium |

Q4. Which of the following is true solution?

- | | |
|------------------|--------------------------|
| a) Milk | b) Chalk powder in water |
| c) Salt solution | d) Blood |

Q5. Milk, chalk powder solution in water, copper sulphate and starch alum solution are filtered.

The solution which will leave a residue is

- | |
|--|
| a) Chalk powder solution |
| b) Milk |
| c) Alum solution |
| d) Chalk powder solution and alum solution |

II.. Assertion and Reason

Directions: In each of the following questions, a statement of Assertion is given, and a corresponding statement of Reason is given just below it. Of the statements, given below, mark the correct answer as:

- | |
|---|
| (a) Both assertion and reason are true, and reason is the correct explanation of assertion. |
| (b) Both assertion and reason are true, but reason is not the correct explanation of assertion. |
| (c) Assertion is true, but reason is false. |
| (d) Assertion is false, but reason is true. |

Q6. **Assertion (A):** Sodium chloride cannot be separated by physical process into its chemical constituents.

Reason (R): Sodium chloride is an example of a pure substance.

Q7. **Assertion (A):** Alloy is considered as a mixture.

Reason (R): It cannot be separated into their constituents by physical methods.

Q8. **Assertion (A):** A solution is a homogeneous mixture of two or more substances.

Reason (R): Path of light is visible when a ray of light is passed through a solution.

III. Very Short questions carrying 2 marks each (Answer in 50 words)

Q9. What is a mixture? Write any two characteristics of a mixture.

Q10. a) Is a solution made by mixing sugar and water a mixture?

b) Give reason for the above. (Write at least two reasons)

4. AIM (OBJECTIVE) OF THE PROJECT	
5. TINKERING INVOLVED (YOUR SOLUTION)	
6. FUTURE SCOPE	

Note: You can refer to the sample project ideas and the provided assignment format. Think creatively and explore a new project idea of your own, then write it out systematically. Mention only one project idea.

SAMPLE PROJECT IDEA

1. TITLE OF THE PROJECT	Smart Waste Sorter
2. UN SDGs INVOLVED	<ul style="list-style-type: none"> • SDG 11: Sustainable Cities and Communities • SDG 12: Responsible Consumption and Production
3. PROBLEM STATEMENT	Urban areas generate large amounts of waste, and improper waste segregation leads to pollution and inefficient recycling.
4. AIM OF THE PROJECT	To automatically classify waste into biodegradable, recyclable, and non-recyclable categories using AI.
5. TINKERING INVOLVED	Develop an AI model that analyses photos of waste items and predicts the correct waste category. The system can be integrated with school/ community dustbins to help citizens correctly dispose of waste and improve recycling rates.
6. FUTURE SCOPE	<ul style="list-style-type: none"> • Integration with smart dustbins. • Adding sensors to detect harmful/chemical waste. • Larger datasets for higher accuracy.

----- HAPPY HOLIDAYS -----