



RED ROSE

SENIOR SECONDARY SCHOOL

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SUMMER

Holiday



HOMEWORK

**CLASS
X (A+B)**



ENGLISH

I. ALS Topics (Any one)

Roll no 1-4

i. The role of technology in education.

Roll no 5-8

ii. The impact of social media.

Roll no 9-12

iii. Role of students in eradicating illiteracy

Roll no 13-16

iv. The role of the countrymen in maintaining law and order.

Roll no 17-20

v. Environment Conservation .

Roll no 21-23

vi. Preservation of wild life.

Roll no 24-28

vii. Habit of reading never leaves us alone.

II. Read the passage and answer the questions given below.

Water is one of the most essential resources on Earth, yet it is often taken for granted. Despite its abundance, the reality is that only a small fraction of the world's water is fresh and available for human use. With increasing populations, climate change, and industrial demands, the pressure on our water resources is growing. This makes water conservation not just a collective responsibility but a crucial individual duty. Each person's effort towards conserving water can significantly impact the preservation of this vital resource for future generations.

(2) One of the primary reasons individual water conservation efforts are so important is the cumulative effect of small actions which may seem trivial on their own.

However, when multiplied by millions of people, these actions can lead to substantial water savings. For example, a single dripping tap can waste over 15 litres of water a day. Imagine the water saved if every household in a city repaired just one leaky faucet. This highlights the power of collective individual actions in reducing water waste.

(3) Moreover, personal efforts towards water conservation often lead to greater awareness and education. When individuals take steps to conserve water, they become more conscious of their water usage and the importance of this resource. This awareness can then spread within communities, inspiring others to adopt similar practices. For instance, a family that installs water-saving devices in their home may encourage neighbours and friends to do the same, creating a ripple effect. This grassroots approach to conservation can be particularly effective in

areas where larger-scale initiatives may be slow to implement or lacking in support.

(4) In addition to daily habits, individuals can also make a difference through more significant lifestyle choices. For instance, opting for drought-resistant plants in gardens and supporting water-efficient agriculture can all contribute to water conservation. Agriculture, especially livestock farming, is one of the largest consumers of water globally. By supporting sustainable farming practices, individuals can indirectly reduce the water footprint of their food.

(5) Critics might argue that individual efforts are negligible compared to the large-scale water consumption by industries and agriculture. However, this perspective overlooks the potential for individual actions to drive systemic change. When people collectively make water-conscious choices, they send a powerful message to businesses and policymakers about the importance of conservation.

(6) Each person's commitment to saving water, no matter how small, contributes to a larger culture of sustainability. By making conscious choices and spreading awareness, individuals can help ensure that future generations have access to the clean, fresh water they need to thrive. Water conservation is not just the responsibility of governments and industries; it is a shared duty that begins with each of us.

Answer the following questions, based on the passage above.

I In paragraph 1, what does the phrase 'each person's effort towards conserving water can significantly impact the preservation of this vital resource' emphasise?

II Complete the following with the correct option from the two given.

Water is often taken for granted, despite its essential nature because.

A. It is abundant and always easily accessible, making people less aware of its usage

B. Its importance is not always recognised, leading people to overlook its value (paragraph 1)

III Support the writer's idea that small individual actions towards water conservation

are not trivial. (paragraph 2)

IV. Select the option that best reflects the concept of a 'ripple effect' in the context of

a student life at school. (paragraph 3)

i. A student's act of volunteering at a local charity leads to the school administration organising a large-scale fundraising event.

ii. A student who consistently follows good study practices inspires classmates to improve their own study routines, creating a culture of academic excellence in the class. (paragraph 3)

V. State whether the following statement is True or False. (paragraph 3)

Grassroot efforts like personal efforts are more effective in water conservation.

VI. The writer mentions 'sustainable farming practices' in paragraph 4.

Which of the following is a sustainable farming practice?

A. Using chemical fertilizers and pesticides extensively to increase crop yields.

B. Clearing large areas of natural vegetation to expand farmland for organic Farming.

C. Implementing crop rotation and using organic compost to maintain soil health.

D. Relying solely on monoculture farming to maximise production efficiency.

VII List any two points that a powerful message sent to businesses and policy makers about the importance of water conservation might include.

Viii. Fill in the blank with the correct option from those given. (paragraph 6) in the phrase 'culture of sustainability,' the word 'culture' refers to .

i. A set of beliefs and practices shared by a group

ii. The artistic and traditional practices specific to a community's heritage.

iii. The lifestyle habits and choices that are popular among the urbane

iv. The techniques and methods used in development efforts

III. Write a letter to the Director of the Archaeological Survey of India complaining about the damage caused to a historical monument in your city due to negligence. You are Arnav/Arti of 36, JL Nehru Road Delhi.

IV. You feel that the Right to Education is going to help India rise above the narrow boundaries of prejudices of caste, colour, creed and corruption. Write a letter to the editor of The Times of India, reflecting your views on the subject. Sign yourself as Nandita /Naveen of Paschim Vihar Delhi. (word limit 100 to 120)

V. Read the following excerpt from an online website.

The pressure of studies – spending time on social media, internet surfing – watching television – sleeping less at night – being inattentive and sleepy during the daytime – hampered growth and development.

Write a paragraph in about 120 words on how addiction to internet and TV has affected the sleeping hours of young people. (You can think of alternative explanations that might support or validate the above statement.)

VI. Fill in the blanks with the correct form of the verb in the present perfect tense.

I ____ (see) that movie many times.

They ____ (not travel) to Europe yet.

She ____ (already finished) her homework.

He ____ (just arrived) at the party.

We _____ (not been) to that restaurant before.

VII. Fill in the blanks with the correct present perfect continuous form of the verb .

I _____ (work) on this project for hours.

She _____ (study) for the exam since Monday.

They _____ (play) basketball all afternoon.

He _____ (wait) for the bus since 9 am.

We _____ (read) this book for a few days now.

Literature

Read the lesson and find the short answers.

Two stories about flying

His first flight

Black Aeroplane

HINDI

निम्नलिखित में से किसी एक विषय पर निर्देशानुसार परियोजना कार्य पूर्ण करे —

रोल नंबर –1 to 6 सूरदास (भ्रमरगीत)

रोल नंबर –7 to 12 तुलसीदास(रामचरित बालकांड)

रोल नंबर – 13-18 जयशंकर प्रसाद (आत्मकथ्य)

रोल नंबर – 19-24 सूर्यकांत त्रिपाठी निराला(उत्साह)

रोल नंबर - 25-30 रामवृक्ष बेनीपुरी (रेखाचित्र)

'लखनवी अंदाज' पाठ पढ़कर 10 बहुविकल्पी और 5 लघुतरीयप्रश्न कक्षा पुस्तिका (Class Work Copy) में लिखिए।

'राम लक्ष्मण परशुराम संवाद--तुलसीदास ' पढ़कर 10 बहुविकल्पी 5 लघुतरीय प्रश्न (Class Work Copy) लिखिए।

MATHEMATICS

Lab Activities

1. To verify that tangent to circle from some external point are equal.
2. To verify the distance formula by graphical method.
3. To verify section formula by graphical method.

Project work

What is golden rectangle and golden ratio?

SCIENCE

PRACTICALS

1. Complete the lab activities in the Science Lab Manual with well labelled colourful diagram.
 - i. Heating of $\text{Pb}(\text{NO}_3)_2$

ii. Displacement reaction for Fe with CuSO_4

2. Determination of the focal length of:

i) Concave mirror

ii) Convex lens

by obtaining the image of a distant object.

3. Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.

4. Studying (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides.

5. Tracing the path of the rays of light through a glass prism.

6. Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean).

Portfolio

Portfolio to be prepared by the student- This would include classwork and other sample of student work. Students can make any one of the portfolio on the allotted topics.

List of portfolio topics

PHYSICS

1) Visit- Bara Imambara Observe various types of mirrors using in it. How the nature and position of images vary with respect to your position in various mirrors. Sketch all the possibilities in your portfolio.

2). Observe the mirror used in rear-view of a vehicle, microscope, shaving or make-up & dentists. State the reasons of using different mirrors for their respective field.

3) In skirt light components are connected along a single electrical path but in domestic wiring components are connected along multiple paths. State your reason, what are advantages and disadvantages of both the paths.

4. In your daily life what are the applications of refraction do you observe? Write all of them.

5. Write & explains the devices which used the heating effect of electric current in your daily life.

CHEMISTRY

Solve this in your notebooks

1. Practice PYQ's provided to you.
2. Write, balance & learn the following chemical equations
(Define type of reaction such as decomposition, photochemical, electrolytic, combination, exothermic, endothermic, displacement & double displacement (3 in each category))
3. Prepare chapter Chemical Reactions & equation thoroughly for class internal assessment.
4. In your daily life you have many chemical reactions around you, stick 5 photos for them
5. You are at home & you don't have litmus paper, but still a indicator is present in your kitchen which can distinguish among acid & base – which indicator is this & how you will perform the experiment at home. Suggest your idea.

BIOLOGY

1. How can you manage the different natural resources ? List all of your view in your portfolio.
2. Which processes make you alive ? Describe all these life processes.
3. How do our activities affect the environment? what steps can be taken by you to limit the damage of environment.

4. In your kitchen, you occasionally saw few potatoes growing plant like structures on them. Identify these structures and also explain other methods in which plant reproduce vegetatively.

5. Observe the following traits in your body •Tongue - Rolling or not

- Hair pattern & colour
- Eye colour
- Blood Group
- Free /attached earlobes.

Are these traits have any resembles to your parents. How do these traits transfer from your parent to you? Explain.

6. Pluck a Hibiscus rosa-sinensis. Will you be able to identify its different parts? Explain all the parts of a flower.

SOCIAL SCIENCE

1. Activity: Project topic

Topic:

1. Consumer Rights
2. Popular Struggles and movements

1st page – with Name, Class, Subject, Topic, Submitted by and Submitted to.

2nd page – Contents

3rd page – Introduction and about the topic - Pages

2nd last page – Conclusion

Last page – Bibliography

Minimum pages: at least 20-25 pages for the topic

Take interleaf file papers – support your topic with picture (necessary).

In your own hand – writing

Neatness to be maintained. No decoration required.

2. Read chapter 1 and 2 from Political Science, Chapter 2 from History and chapter 1 and 2 from Geography.

INFORMATION TECHNOLOGY

Make practical file pages on the following practical using OPEN OFFICE. Take the print out of the pages and collect them in a transparent stick file. Submit the file after Summer Vacations.

1. Create a list of 10 students by inserting a table in open office writer with the following fields:

- a) Sr. no.
- b) Student Name
- c) Father's Name
- d) City

2. Prepare a list (data source) of your friends. Using the Mail Merge feature, create an invitation letter and invite them for your brother's wedding. Print address labels displaying the address of your friends' homes.

3. Write an article on "Cybercrime" in about 300 words.

- a) Give appropriate title, heading and subheading in the document.
- b) Apply different styles to different parts of the document.

4. Customize an existing style by changing its font properties.