

Class - X



P.G. Senior Secondary School 10+2

Affiliated To CBSE, New Delhi

SUMMER HOLIDAYS HOMEWORK

Contact us for any query

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Submitted By: _____

Dear Students,

Summer Vacation is really a time duration that brings a lot of joy and new things for you. But this duration is not only for entertainment. It is the time period when you spend your maximum time in your family. Hence, you should try your level best to focus on the values that are taught only in the family or School.

There are some suggestive points for you with an expectation that you will follow without any excuse.

You are suggested to –

- ❖ Do Your Vacation Work by yourself.
- ❖ Avoid separates Note Book for Assignment
- ❖ Write Good, Neat and Clean.
- ❖ Use a file to settle the Pages of Assignment.
- ❖ Do all the work with Day and Date.
- ❖ Avoid playing in the Sunshine or Hot Places.
- ❖ Try to pray God daily.
- ❖ Pay special attention towards your Health and Caring.
- ❖ Touch the Feet of your Parents, Grand Parents and other Elders of your family at least two times in a day (Morning & Night)

Request to Parents:

- ❖ Holidays homework should be done by the child, under parental guidance.
- ❖ The child should have a fixed time daily, for doing the assignments.
- ❖ Nurture your child's interest – be it art, music, dance or anything else.
- ❖ Let him/her pursue a hobby of his /her own choice.
- ❖ Please train your child to become independent in his daily chores.

Please Involve child at home in the following tasks –

- ❖ Help to keep the house clean- clear toys, books or craft after they finish playing.
- ❖ Help your mother to set and clear the dining table.
- ❖ Remember to converse in English.
- ❖ Be polite while speaking and talk softly.

To enhance children's creativity and innovation for the progressive learning. Help your child to do the following:

- ❖ **Morning Blessings:** Help your child inculcate good habits like doing "Surya Pranam" & encourage him/her to greet all elders in the morning.
- ❖ **Fun in Knowing:** Tell the child about your childhood, share incidents from the past and show him/her old family albums. This will strengthen the bond between you and your child.
- ❖ **Fun with Books:** Read English and Hindi stories to your child with morals.
- ❖ **Fun with family:** Make use of these holidays and spend quality time together as a family and make your child feel special.
- ❖ **Fun with Parents:** Cook dinner together. Show your child how to measure 1 cup, 1/2, 1teaspoon etc. Start naming the food groups, when you serve them.
- ❖ **Go for shopping together:** Tell your child about market and mall differences, about the things, items and material purchased from there.
- ❖ Let your child help in your household chores like cleanings, dusting and many more.
- ❖ Have walk together and talk to your child about what he/she likes and dislikes etc.
- ❖ Help your child to memorize the home address and your phone numbers too.
- ❖ Help your child in learning how to open and close his/her water bottle, lunch box.

Subject – English**1. Read the passage**

1. Hormone levels- and hence our moods -may be affected by the weather. Gloomy weather can cause depression, but sunshine appears to raise the spirits. In Britain, for example, the dull weather of winter drastically cuts down the amount of sunlight that is experienced which strongly affects some people. They become so depressed and lacking in energy that their work and social life are affected. This condition has been given the name SAD (Seasonal Affective Disorder). Sufferers can fight back by making the most of any sunlight in winter and by spending a few hours each day under special, full-spectrum lamps. These provide more ultraviolet and blue green light than ordinary fluorescent and tungsten lights. Some Russian scientists claim that children learn better after being exposed to ultraviolet light. In warm countries, hours of work are often arranged so that workers can take a break, or even a siesta, during the hottest part of the day. Scientists are working to discover the links between the weather and human beings' moods and performance.

2. It is generally believed that tempers grow shorter in hot, muggy Weather. There is no doubt that 'crimes against the person' rise in the summer, when the weather is hotter and fall in the winter when weather is colder. Research in the United States has shown a relationship between temperature and street riots. The frequency of riots rises dramatically as the weather gets warmer, hitting a peak around 27 - 30°C. But is this effect really due to a mood change caused by the heat? Some scientists argue that trouble starts more often in hot weather merely because there are more people in the street when the weather is good.

3. Psychologists have conducted studies showing that people become less sceptical and more optimistic when the weather is sunny. However, this apparently does not just depend on the temperature. An American psychologist studied customers in a temperature -controlled restaurant. They gave bigger tips when the sun was shining and smaller tips when it wasn't, even though the temperature in the restaurant was the same. A link between weather and mood is made believable by the evidence for a connection between behaviour and length of the daylight hours. This in turn might involve the level of a hormone called melatonin, produced in the pineal gland in the brain. The amount of melatonin falls with greater exposure to daylight.

Based on your understanding of the passage, answer the questions given below.

- i. What are the two assumed reasons of increased riots in the hotter weather?
- ii. Rewrite the following sentence replacing the underlined phrase with a word from the third paragraph of the passage. Sameera was hopeful and confident about the future, as she reminisced something from her childhood.
- iii. How can the sufferers of SAD overcome the effects of the disorder?

iv. When the American psychologists conducted a study on the customers of a restaurant, when and why did some give bigger tips?

v. "In warm countries workers can take a break, or even a siesta, during the hottest part of the day." Mood change is not the only reason of the open-air labourers to refrain from work in the hottest hours. What else can be the reason?

vi. How does the writer justify that it is not just the temperature that makes people less sceptical and more optimistic?

2. Choose the most appropriate word from the options given below and complete the following passage.

Rivers are considered holy (i) _____ India but they are hardly treated (ii) _____ respect. All kinds of dust and filth find (iii) _____ way into the rivers. If we have to treat and purify the water (iv) _____ drinking it, how can the fish survive in waters? Every year river Gomti becomes (v) _____ death bed of thousands of fish because (vi) _____ water released in the reservoir upstream carries effluents (vii) _____ the neighbouring industries.

- (i) (a) in (b) on (c) at (d) of
- (ii) (a) in (b) with (c) of (d) of
- (iii) (a) their (b) his (c) its (d) over
- (iv) (a) of (b) in (c) on (d) for
- (v) (a) the (b) a (c) their (d) those
- (vi) (a) in (b) the (c) with (d) of
- (vii) (a) for (b) on (d) from (c) at

3. You are Jatin / Jigyasa ,Head Boy/ Girl of G.D.G. Public School, Pune, draft notice in not more than 50 words for your school notice board informing the students about the 'Cleanliness Campaign' your school has organised for Classes IX-X after school hours.

4. You are Supreet / Supreeti, living at 426, Ambedkar Nagar, Jaipur. You are deeply concerned at the misuse and poor maintenance of the public parks in your city. Write a letter to the editor of the Hindustan Times, expressing your concern and suggesting some measures to improve the condition of the parks.

5. Describe the character of Lencho in the light of his faith and attitude towards God and man.

6. How did the postmaster help Lencho?

7. Why does Mrs Pumphrey think the dog's recovery is a triumph of surgery?

8. "I think I know a cure for you". What was Dr Herriot's 'cure' for Tricki?

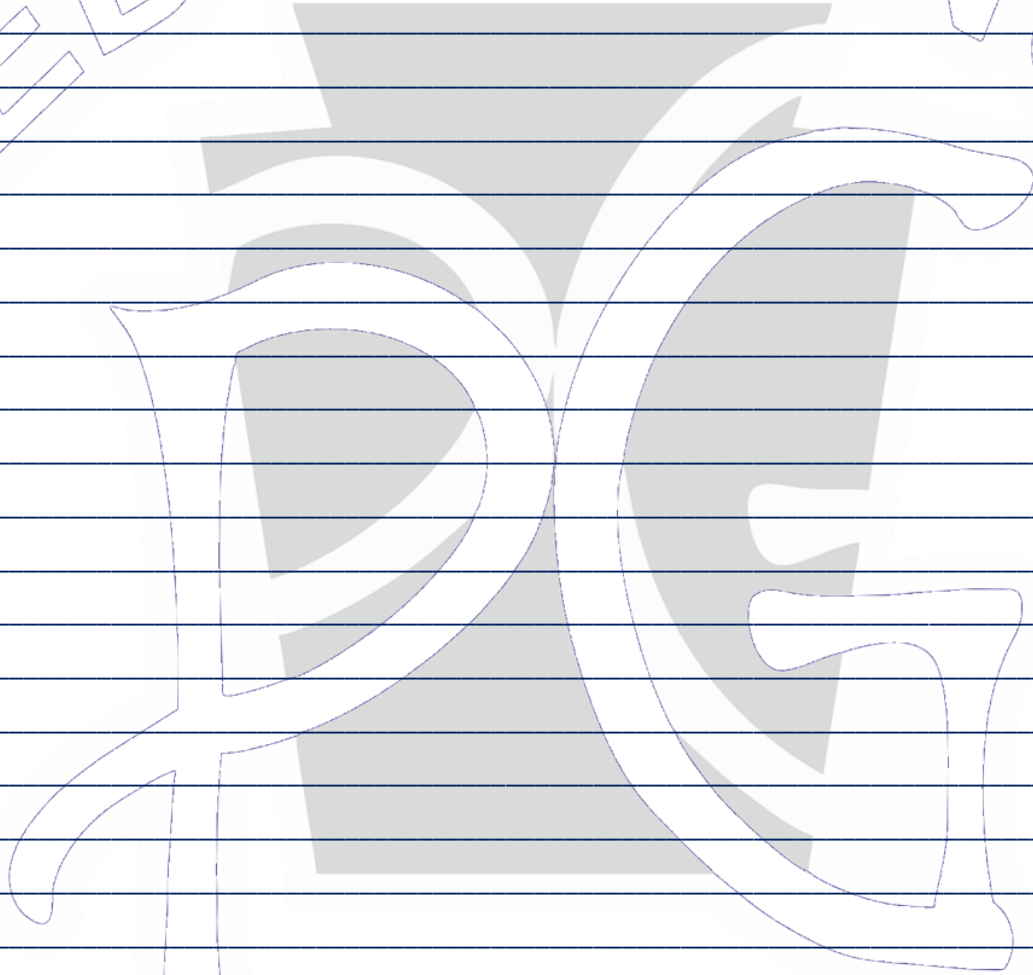
9. What is 'Apartheid'?

Write From Here

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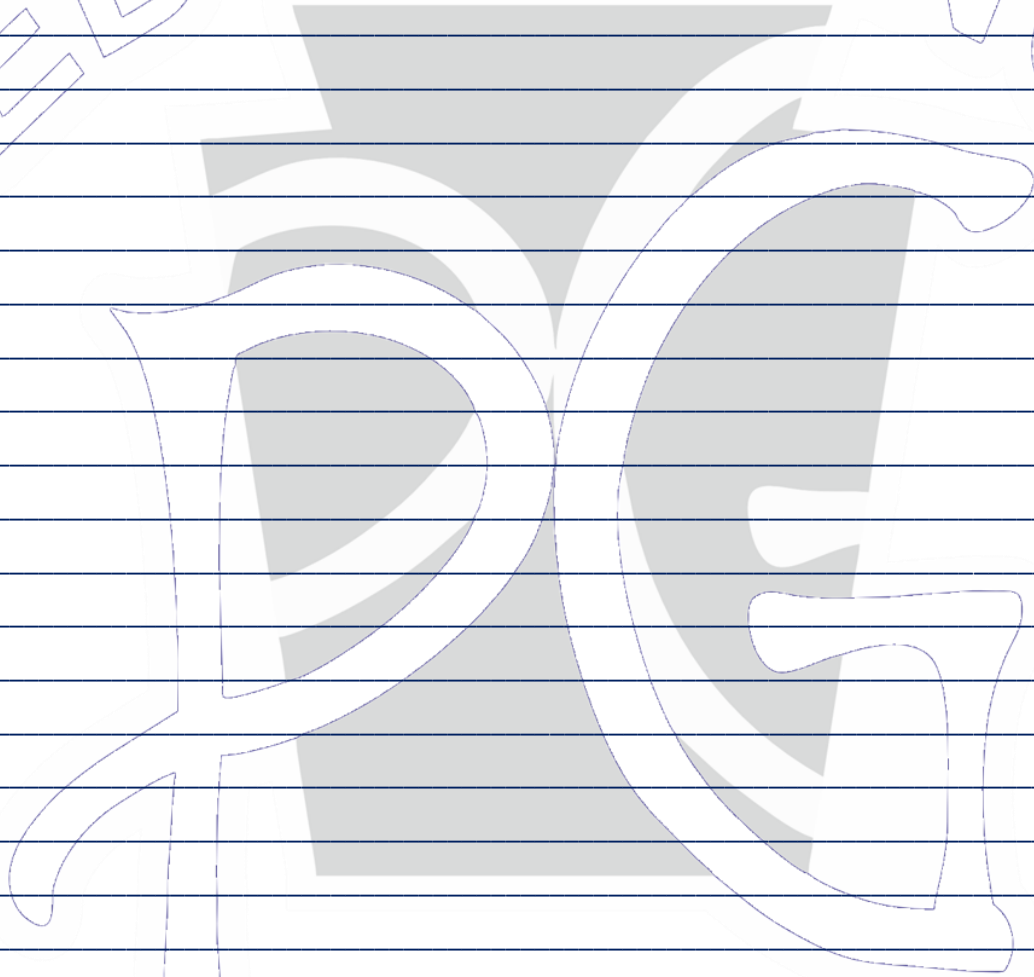
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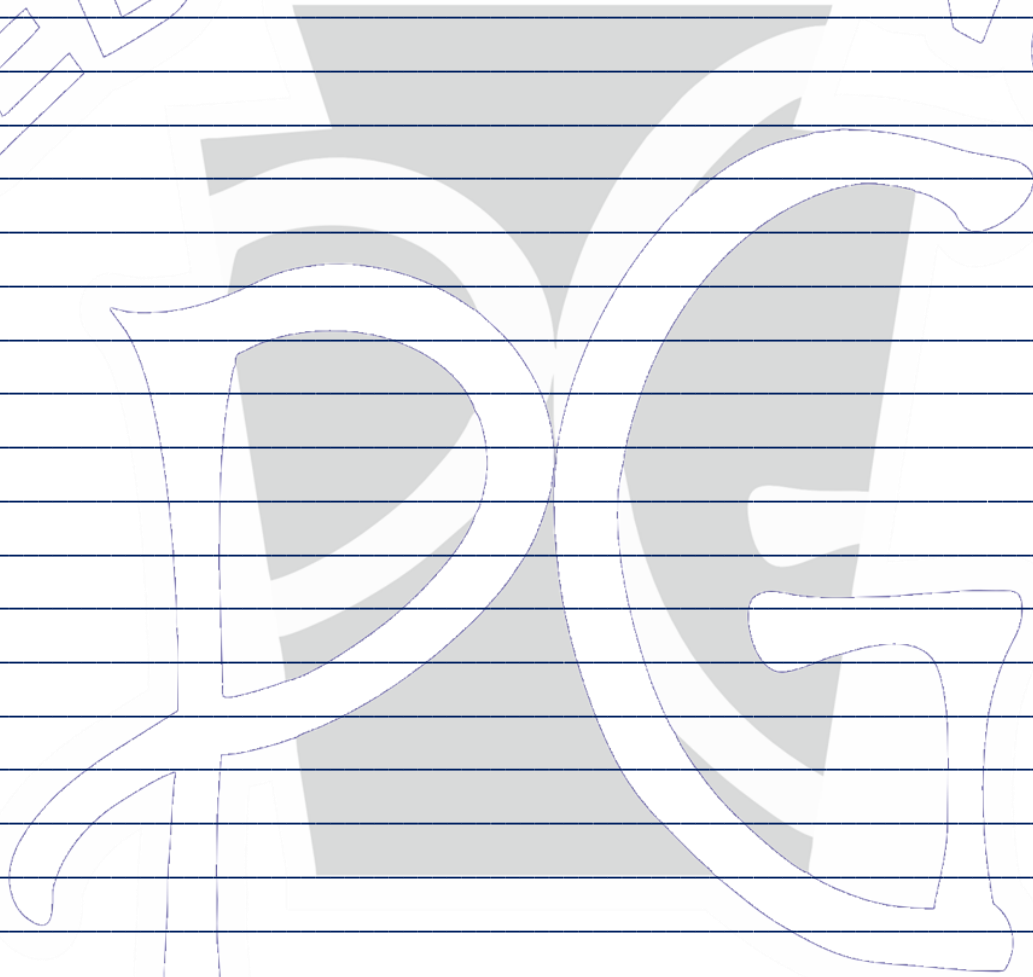
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विषय-हिन्दी

1. निम्नलिखित अपठित गद्यांश को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के सही विकल्प चुनकर लिखिए –
 कहा जाता है कि कोई भी चीज, बाँटने से बढ़ती है। उसी प्रकार खुशियों को बाँटना भी, खुशी पाने का ही एक सापने है। जैसे ज्ञान देने से नहीं घटता, वैसे ही खुशियाँ बाँटने से बढ़ती है। दूसरों को खुशी देना भी, अपने खुशी के खजाने को बढ़ाने जैसा है, दूसरों को खुशियाँ कई प्रकार से दी जा सकती है – उनकी भावनाओं का आदर कर, सहानुभूति रखकर, मदद करके या फिर उनके सुखा-दुःख में सहभागी बनकर। किसी बूढ़े व्यक्ति को सड़क पार कराना, बीमारी में सेवा करना, अपनी वस्तुओं को बाँटना, दूसरों के सुख-दुःख में साथ देना आदि खुशी पाने के उदाहरण हैं पर यह सच है कि खुशियाँ बाँटने से बढ़ती है। खुशी पाने के लिए जरूरी है सकारात्मक दृष्टिकोण को अपनाना। सकारात्मक दृष्टिकोण का अर्थ है – हर दुःख, कष्ट, परेशानी में भी कोई अच्छाई ढूँढ सकने की क्षमता। यदि हम होने वाली हर घटना का सकारात्मक पक्ष देखने की आदत डाल लें तो हर हाल में खुश रहने का मूल मंत्र हमारी मुट्ठी में आ जाएगा। यह खुशी पाने की पहली सीढ़ी या सोपान है। उदाहरण के लिए, दौड़ में पिछड़ जाने का सकारात्मक पक्ष यह है कि हम और अधिक अभ्यास कर अपनी गति को बढ़ाएँ और यह सोचकर निराश न हों कि हम दौड़ में पिछड़ गए बल्कि हम यह सोचे कि हममें भी कोई बात होगी जिससे हम आगे निकल सकते हैं।

- (1) खुशी के खजाने को बढ़ाने जैसा किसे माना गया है ?
 (क) दूसरों की कमियों में सुधार करना (ख) दूसरों को खुशी देना
 (ग) दूसरों को कटुवाणी द्वारा समझना (घ) दूसरों की ओर ध्यान न देना
- (2) सकारात्मक दृष्टिकोण का क्या अर्थ है ?
 (क) दुःख में भी खुशी को तलाशना (ख) केवल स्वयं के प्रति सोचना
 (ग) जीवन का नियम (घ) मायूस हाने
- (3) खुशी पाने का प्रथम सोपान क्या है ?
 (क) परेशानियों का सकारात्मक पक्ष देखना (ख) परेशानियों को देख भागना
 (ग) समय पर छोड़ देना (घ) भाग्य को कोसना
- (4) दौड़ में पिछड़ जाने का सकारात्मक पक्ष क्या है ?
 (क) हार नहीं मानना (ख) अपनी कमजोरियों को समझना
 (ग) पुनः अभ्यास करना (घ) उपराक्त सभी
- (5) गद्यांश का उचित शीर्षक बताइए—
 (क) जीवन वृत्तान्त (ख) जीवन का रहस्य
 (ग) जीवन के प्रति सकारात्मक दृष्टिकोण (घ) जीवन की पहलौ

2. निम्नलिखित अपठित पद्यांश को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के सही विकल्प चुनकर लिखिए—

दो में से क्या तुम्हें चाहिए, कलम या कि तलवार ?

मन में ऊँचे भाव कि तन में शक्ति अजेय अपार !

कलम देश की बड़ी शक्ति है, भाव जगाने वाली,

दिल ही नहीं, दिमागों में भी आग लगाने वाली।

पैदा करती कलम विचारों के जलते अँगारे,
और प्रज्वलित-प्राण देश क्या कभी मरेगा मारे ?

लहू गरम रखने को रखो मन में ज्वलित विचार,
हिंस्त्र जीव से बचने को चाहिए किंतु तलवार!

एक भदे है और जहाँ निर्भर होते नर-नारी,
कलम उगलती आग, जहाँ अक्षर बनते चिगारी।

जहाँ मनुष्यों के भीतर, हर दम जलते हैं शाले,
बाँहों में बिजली होती, होते दिमाग में गोले

जहाँ लागे पालते लहू में हलाहल की धार,

क्या चिंता यदि वहाँ हाथ में हुई नहीं तलवार।

(1) प्रस्तुत काव्यांश में 'कलम' और 'तलवार' को मनुष्य की किन शक्तियों के लिए प्रयुक्त किया गया है, वे हैं -

- (क) मन के भाव और शारीरिक बल (ख) अहिंसा और हिंसा
(ग) मन और शरीर (घ) विद्या और शक्ति

(2) कलम को महत्त्वपूर्ण बताया जाने का कारण है -

- (क) कलम जन भावनाओं को उभारकर व्यापक स्तर पर बहेतर परिवर्तन लाने में समर्थ है
(ख) कलम व्यक्ति को जीवंत रखती है
(ग) कलम के आगे तलवार हार मान लेती है
(घ) तलवार से कलम की भाषा अधिक शक्तिशाली है

(3) शस्त्र की शक्ति की आवश्यकता उस स्थिति में नहीं रह जाती जब -

- (क) जब हिंसक जीव शेष न रहे
(ख) जब कोई भी शत्रु शेष न रहे
(ग) जब लोगों के मन और विचारों में आग लगी रहे
(घ) जब लोग अहिंसा को अपना लें

(4) 'जहाँ लोग पालते लहू में हलाहल की धार' - पक्ति में 'हलाहल' का अर्थ है -

- (क) विश्व (ख) रक्त (ग) व्याधि (घ) परम शक्ति

(5) 'कलम उगलती आग, जहाँ अक्षर बनते चिगारी' - का आशय है -

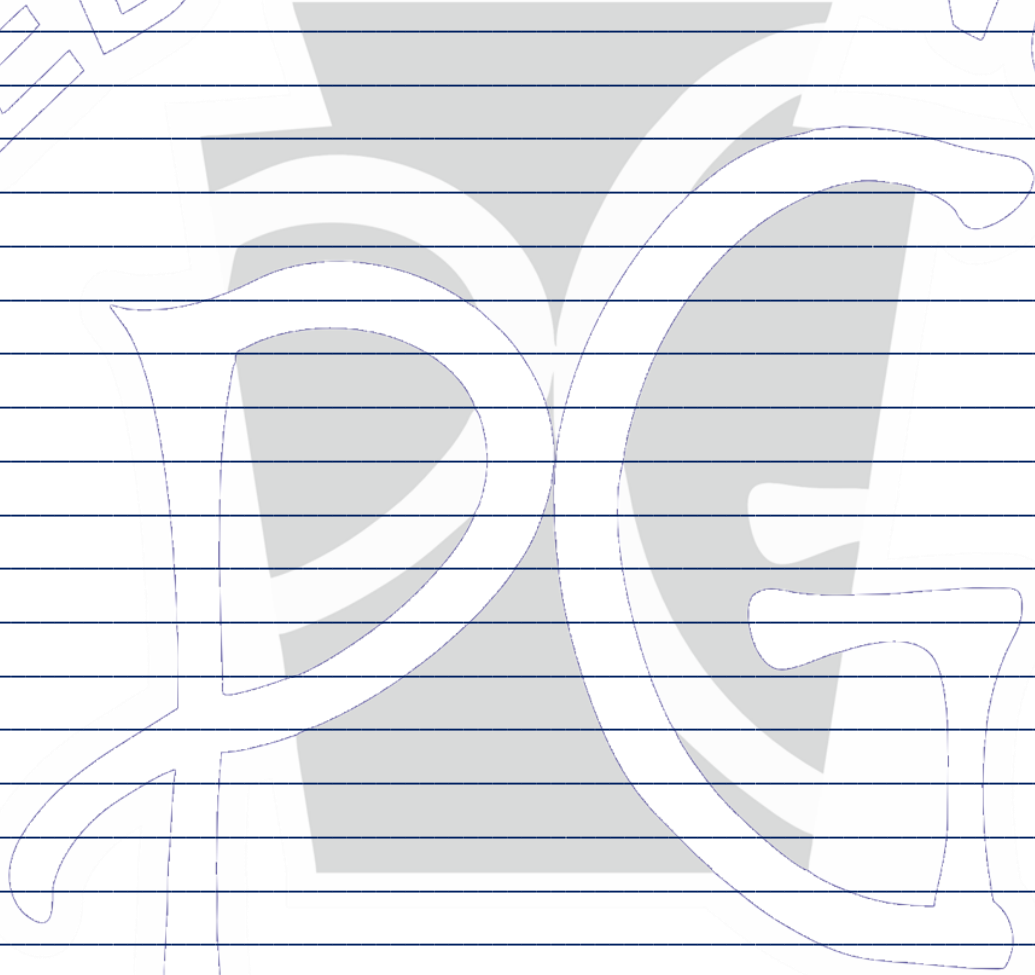
- (क) कलम द्वारा पृष्ठों पर आग रूपी अक्षर बनते हैं
(ख) कलम से वीरतापूर्ण विचारों का निर्माण होता है
(ग) कलम यद्धु को न्यौता देती है
(घ) कलम वीरों का साहस बढ़ाती है

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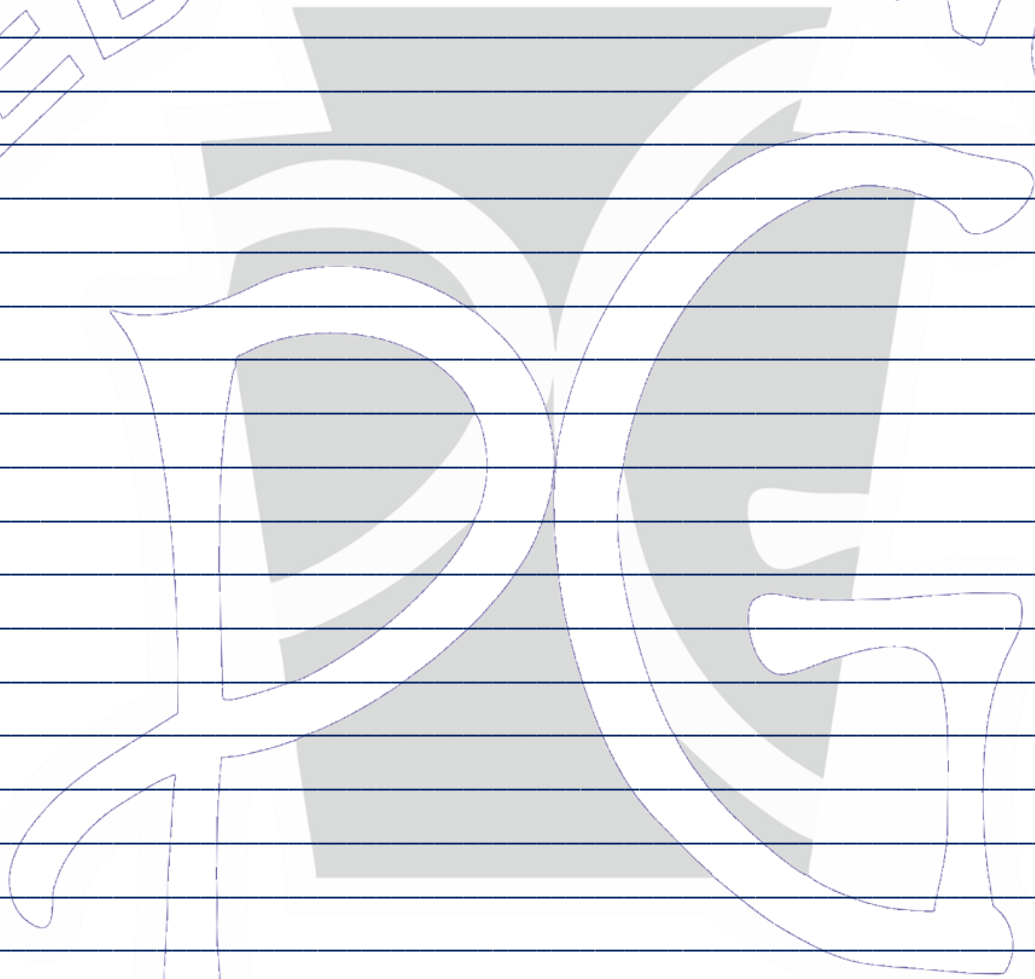
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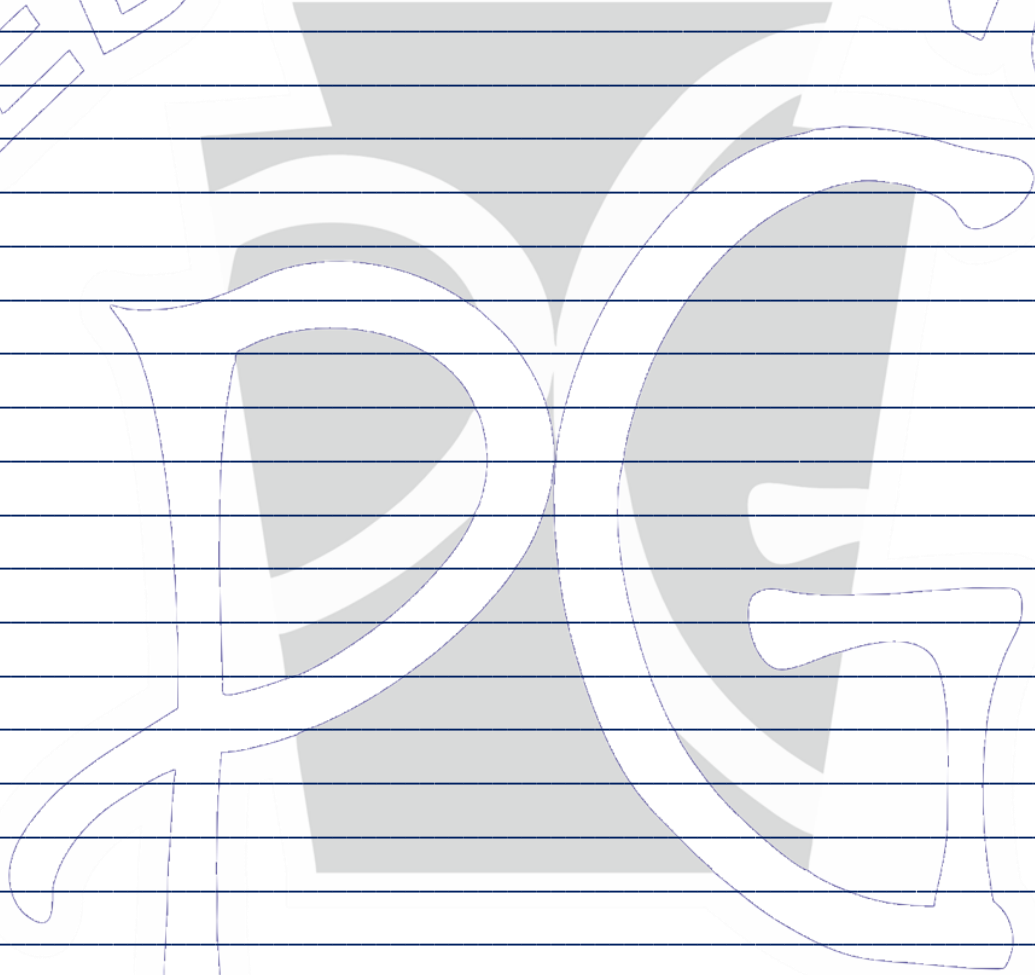
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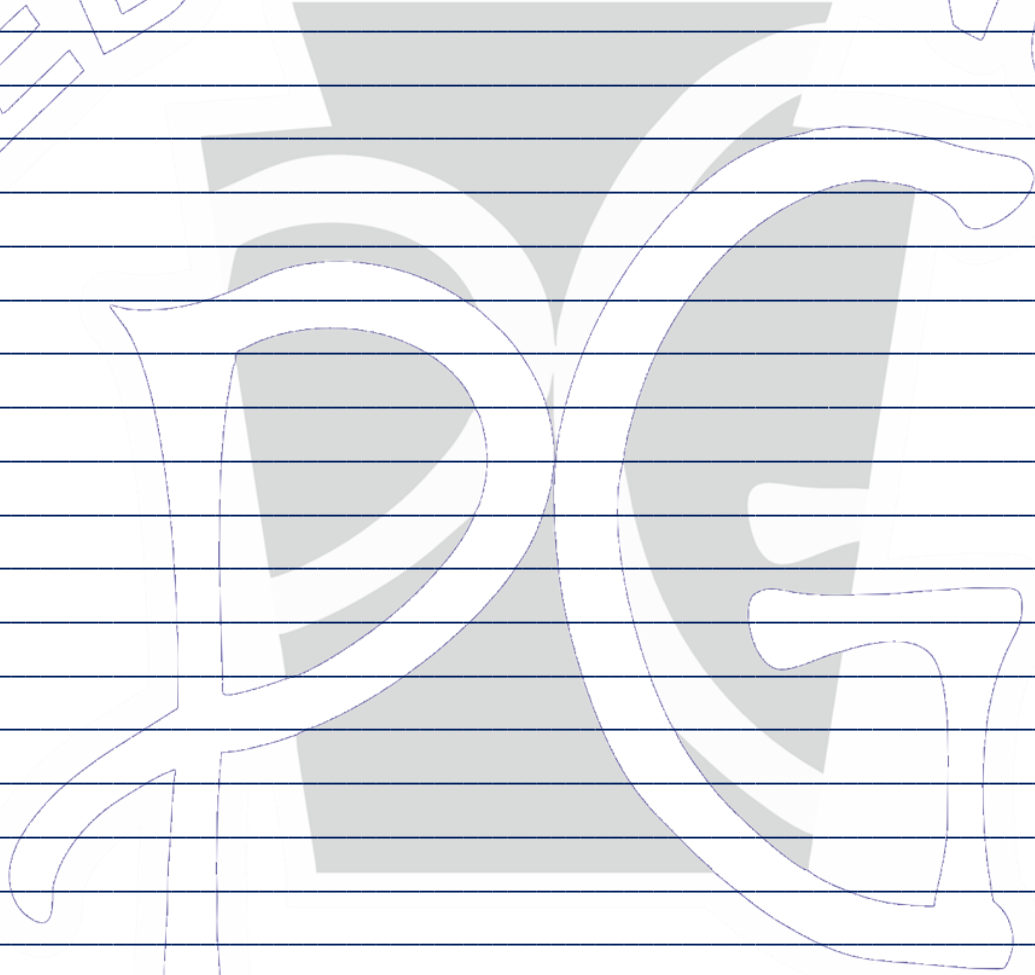
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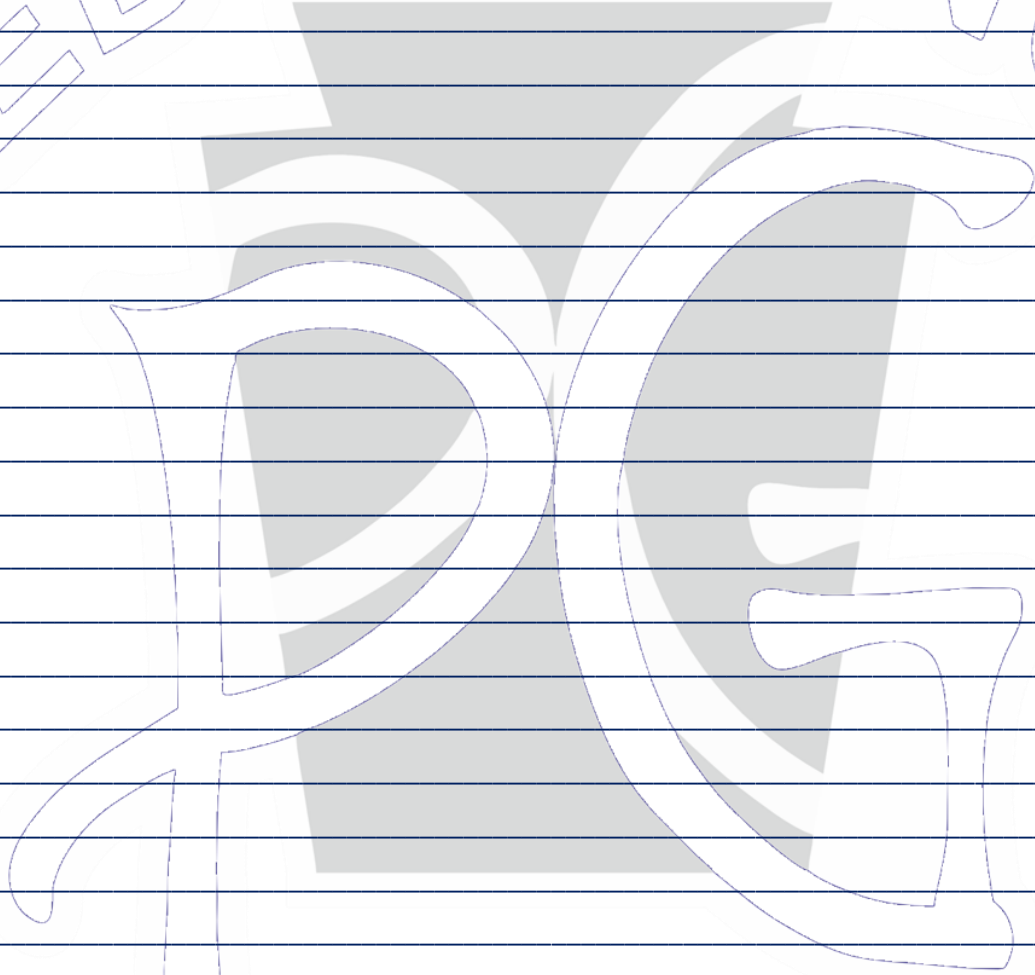
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Subject: Science**Physics:**

- Write mirror formula for spherical mirror. A concave mirror produces three times magnified (enlarged) real image of an object placed at 10cm in front of it. Where is the image located?
- The magnification produced by a plane mirror is +1. What does this mean?
- Why do we prefer a convex mirror as a rear-view mirror in vehicles?
- An object is placed at infinity from a convex mirror of focal length 30 cm. Find the position and nature of the image.
- Name the type of mirror used in the following situations.
 - Headlights of a car
 - Side/rear-view mirror of a vehicle
 - Solar furnace
- An object of size 7.0 cm is placed at 27 cm in front of a concave mirror of focal length 18 cm. At what distance from the mirror should a screen be placed, so that a sharp focused image can be obtained? Find the size and the nature of the image.
- A convex mirror used for rear-view on an automobile has a radius of curvature of 3.00 m. If a bus is located at 5.00 m from this mirror, find the position, nature and size of the image.

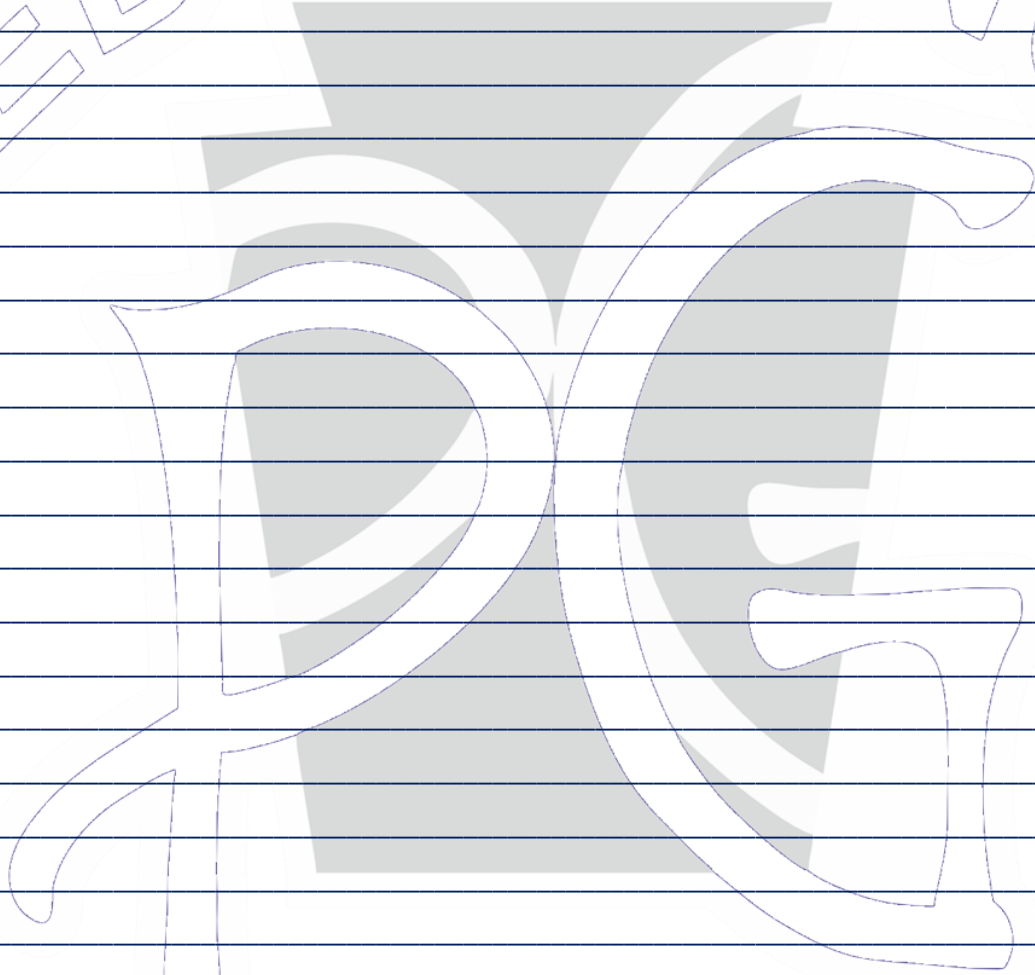
Chemistry

- Define the following chemical reactions and give one example of each:
 - Displacement reaction
 - Precipitation reaction
- Identify the oxidising and reducing agent in the following reactions: $\text{CuO} + \text{H}_2 \rightarrow \text{Cu} + \text{H}_2\text{O}$
- On heating blue colour powder of copper (II) nitrate in a boiling tube, copper oxide (black), oxygen gas and a brown gas X is formed:
 - Identify the brown gas X evolved.
 - Name the type of reaction.
 - Write a balanced chemical equation for it.
- A small amount of quick lime is added to water in a beaker.
 - Name the type of reaction.
 - State two observations that you will make in this reaction.
- Write the differences between combination and decomposition reaction giving examples of each.

Biology

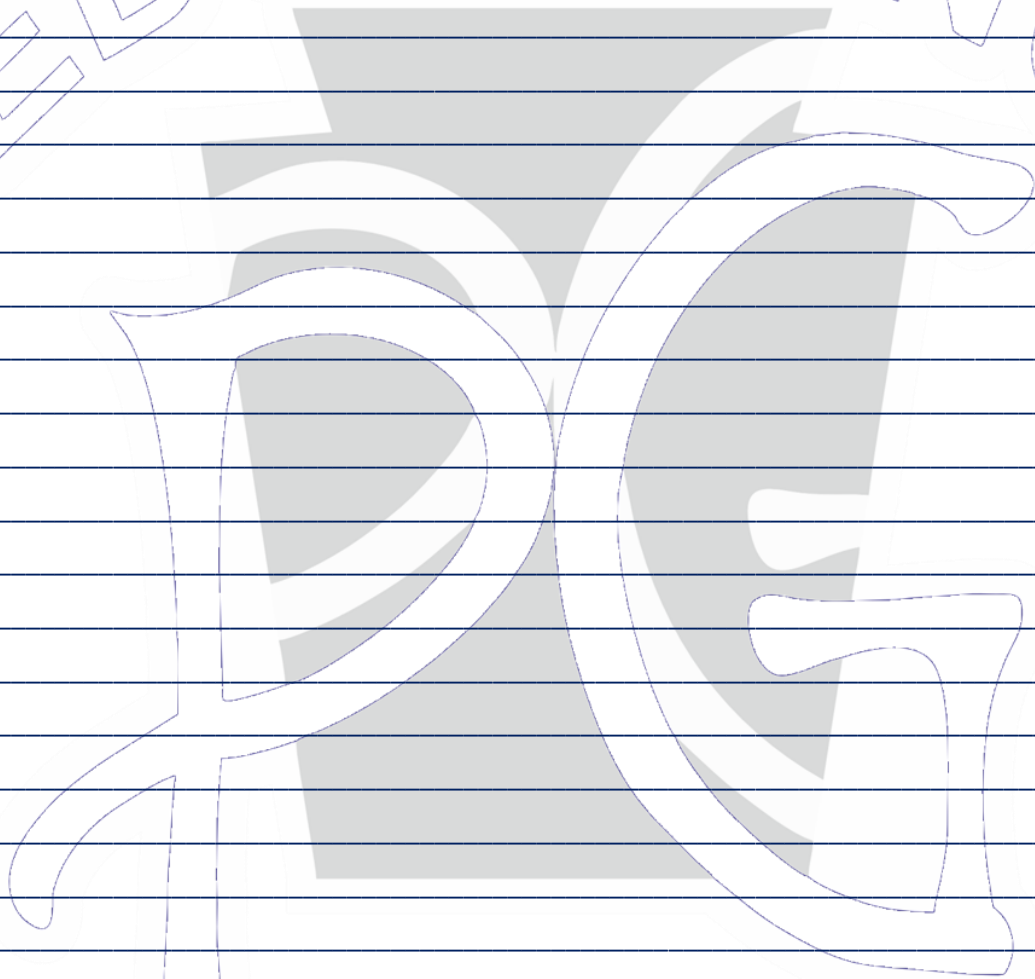
- What is the importance of following process occurring during photosynthesis in plants:- a. Emission of electron s from chlorophyll. b. Photolysis of water.
- In xerophytic plants stomata remain closed during the daytime. How do they take up carbondioxide and perform photosynthesis?
- Mention any three basic events, which takes place during photosynthesis.

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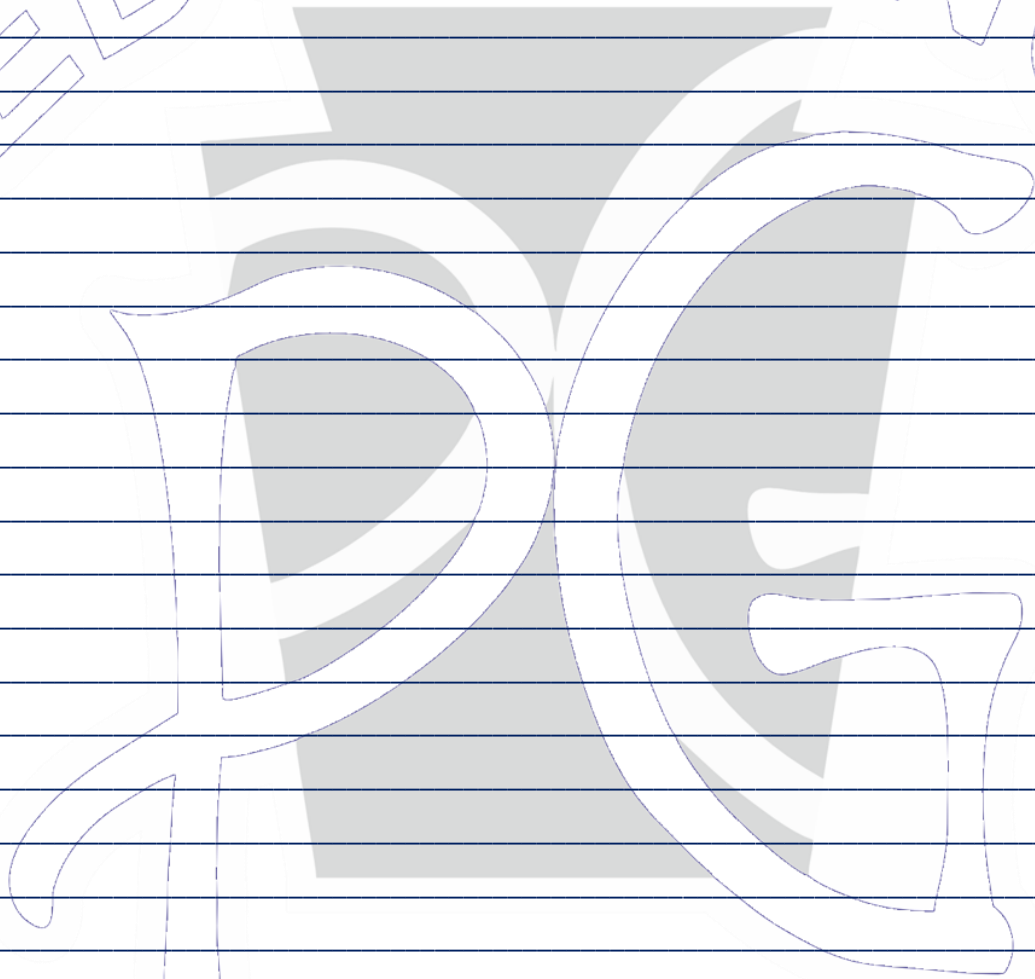
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HEART AND MIND

Subject: Social Science

HISTORY

1. Mention any three steps taken by the French revolutionaries to create sense of collective identity among the people of France.
2. Define the following:
 - a) Absolutism
 - b) Plebiscite
 - c) Nation state
3. Explain any three political and any two economic features of Liberalism during the 19th century in Europe.

POLITICAL SCIENCE

4. Explain the Belgium model of power sharing with the help of three features.
5. Why is power sharing desirable? Name and explain any four prudential causes along with one moral cause.

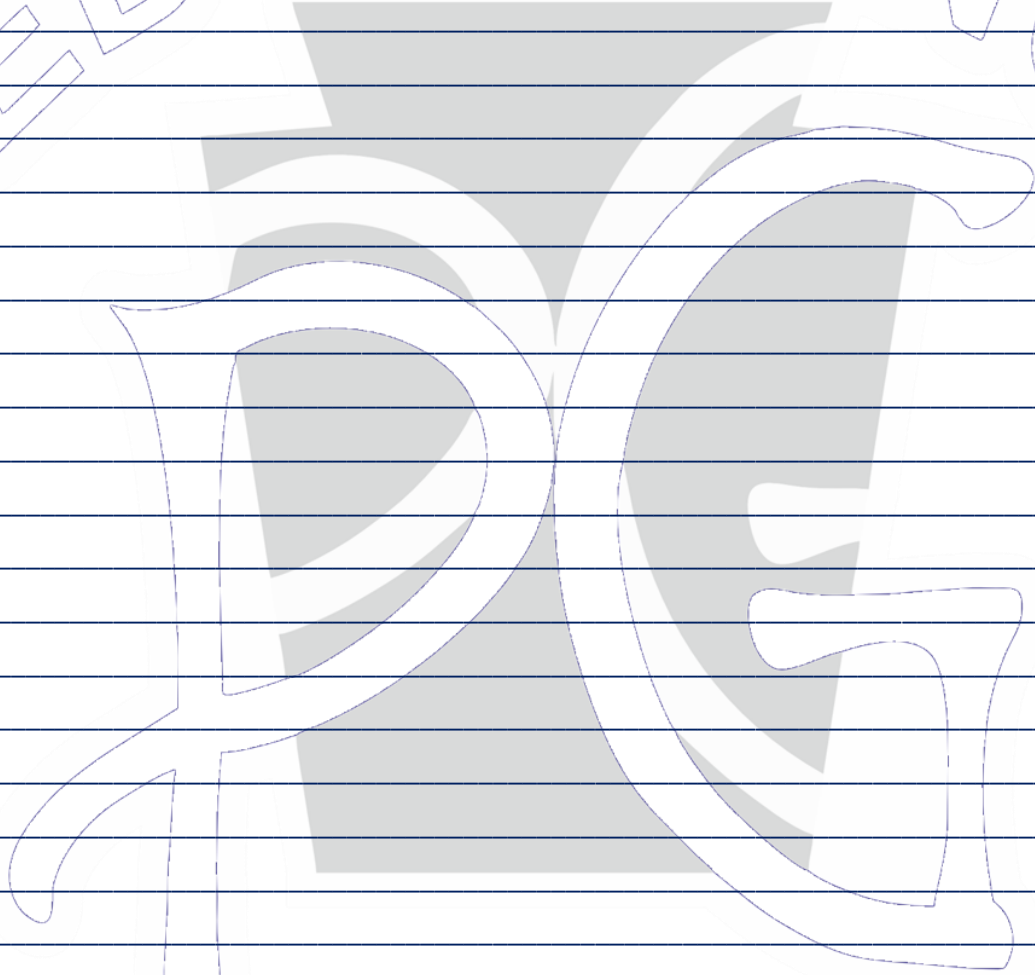
GEOGRAPHY

1. In which one of the following states of India, deforestation due to mining has caused land degradation there?
 - a) Punjab
 - b) Gujarat
 - c) Karnataka
 - d) Madhya Pradesh
2. What are various prerequisites for the natural gifts to elevate to the status of resources?
3. Discuss the various problems of indiscriminate and over exploitation of resources.
4. Explain Agenda No. 21.
5. Classify the sources on the basis of ownership and explain.

ECONOMICS

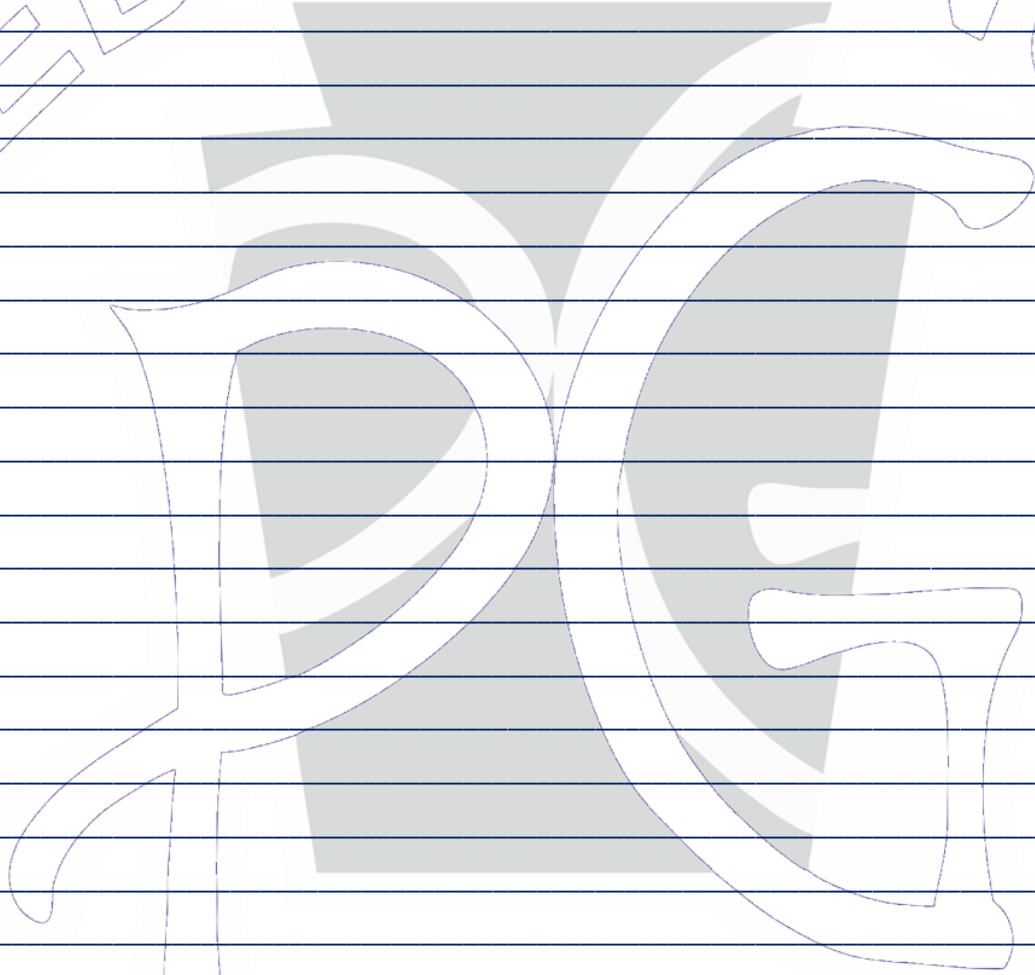
1. Write a brief note on terms of credit form commercial bank.
2. Taking the case study of TATA steels, explain Sustainable development.
3. Write note on PDS giving example of Tamil Nadu.
4. Explain the three sectors of the economy.
5. Discuss whether "FDI" is good for the Indian economy or not.

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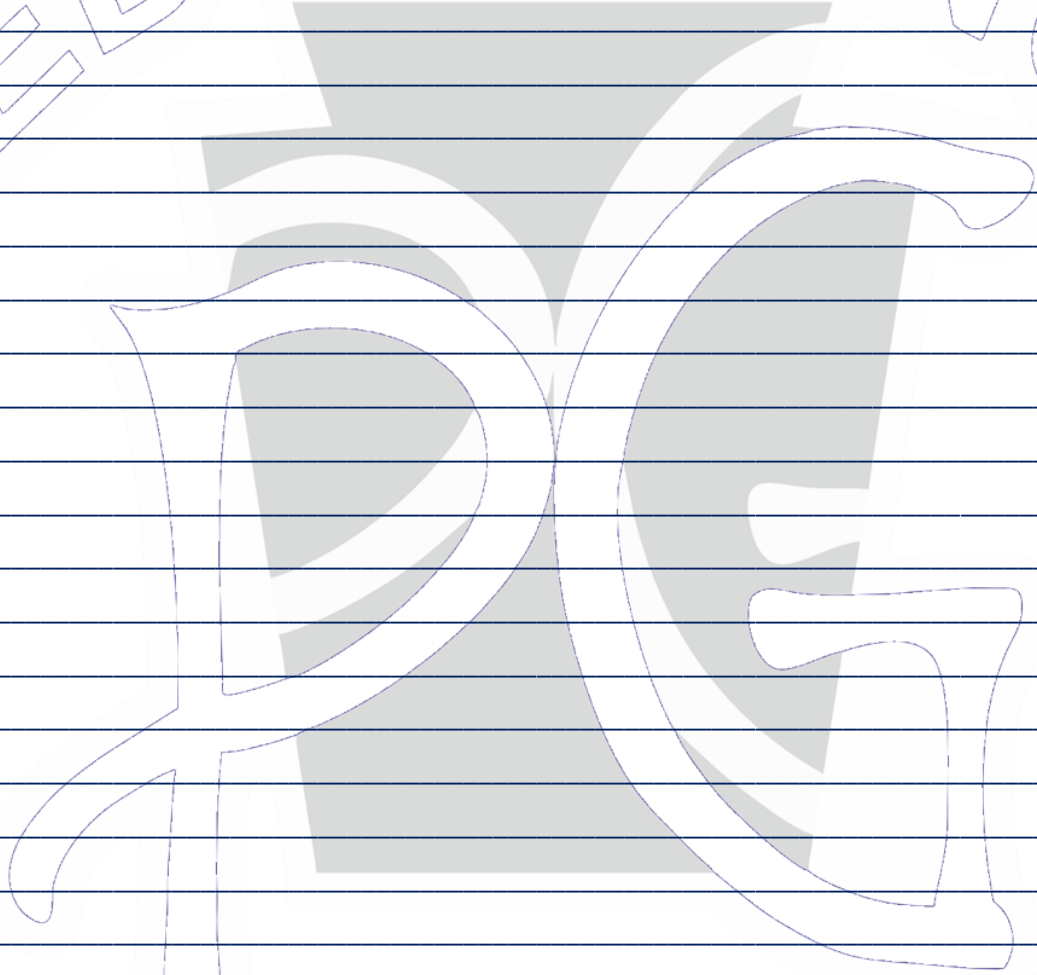
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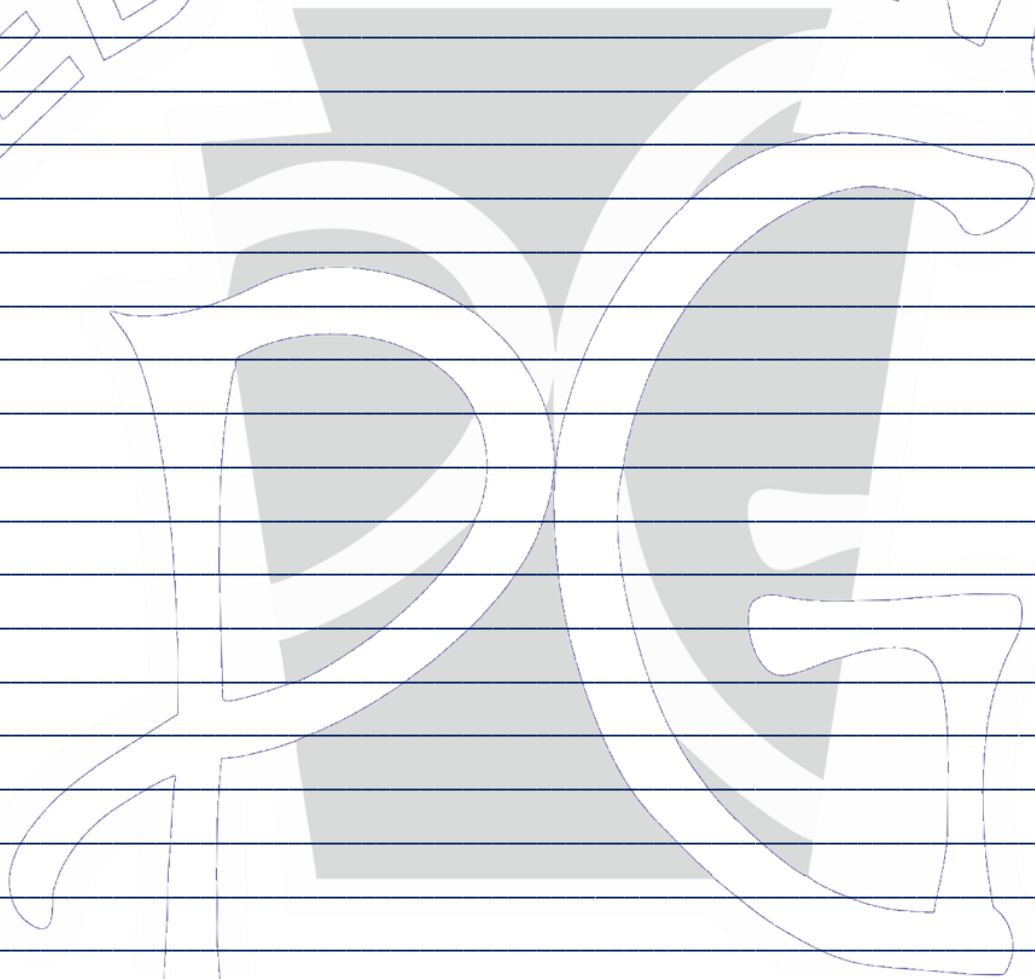
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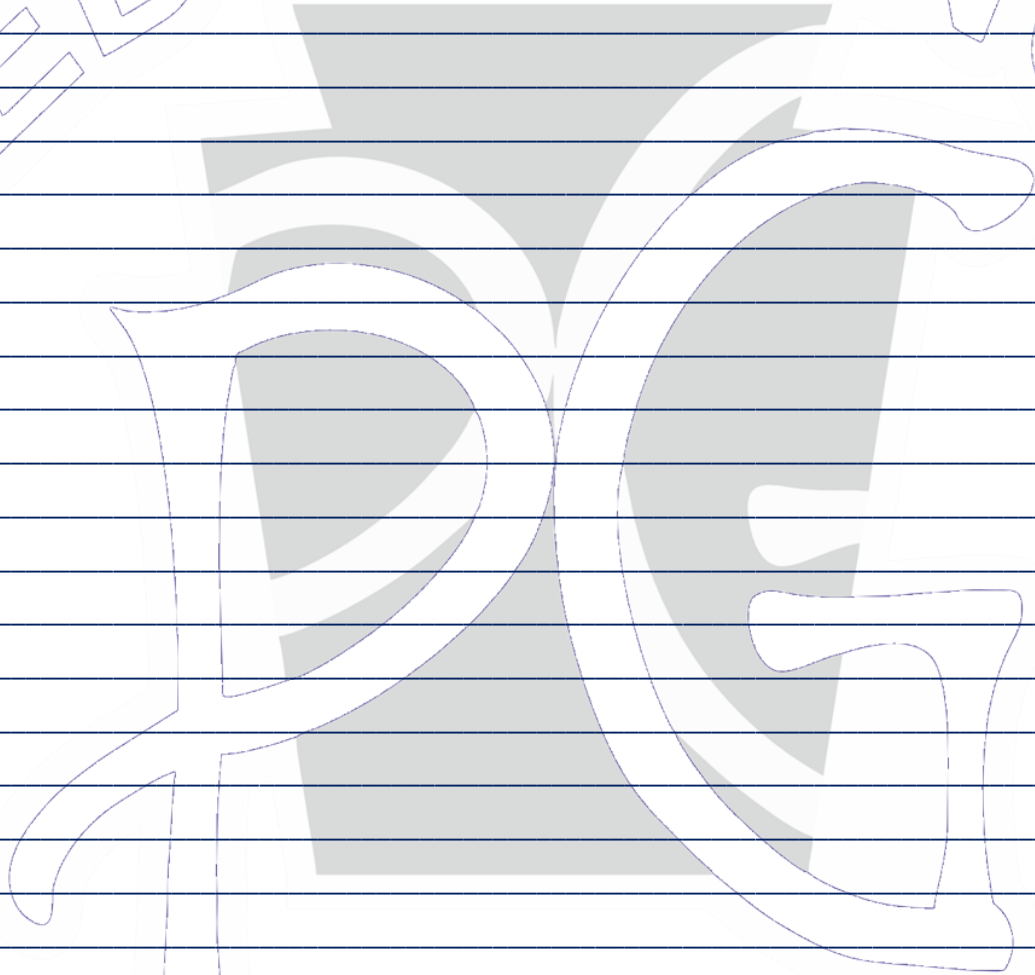
HEART AND MIND

Smart Activity

- ❖ Plant a tree. Click a photograph with it and share the same in your class group. 1 to 12
- ❖ Write the names of all the teaching staff of your school (P. G. Senior Secondary School)
- ❖ Write the process of making a perfect cup of tea.
- ❖ Write a paragraph on your daily routine and submit it in your class group every day between 8pm to 10 pm.

Write From Here

EDUCATING



HEART AND MIND



P. G. SENIOR SECONDARY SCHOOL

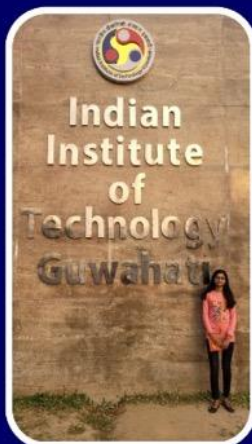
Affiliation No.: 2131500

Affiliated to CBSE, (10+2) New Delhi, Bharat

School Code: 70839



NIDHI SINGH
Qualified IIT MAINS
& ADVANCE 2021
(Campus-IIT, Guwahati)



HOW Nidhi's Biggest Dream of Life came true

Know from the TOPPER herself !

I am Nidhi Singh, I got admission in PG Senior Secondary School in class 6th and studied there till class 12th. It has been an amazing experience of my life where the school not only focuses on academics but also on overall development of a student. The teachers here are very helpful and supportive. Moreover, I would like to thank every teacher of this family who helped me to develop my overall personality by correcting my mistakes.

Nidhi Singh

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