



DELHI PUBLIC SCHOOL VISAKHAPATNAM ASSIGNMENT



Half Yearly Examination Revision 2025-26

Class: X

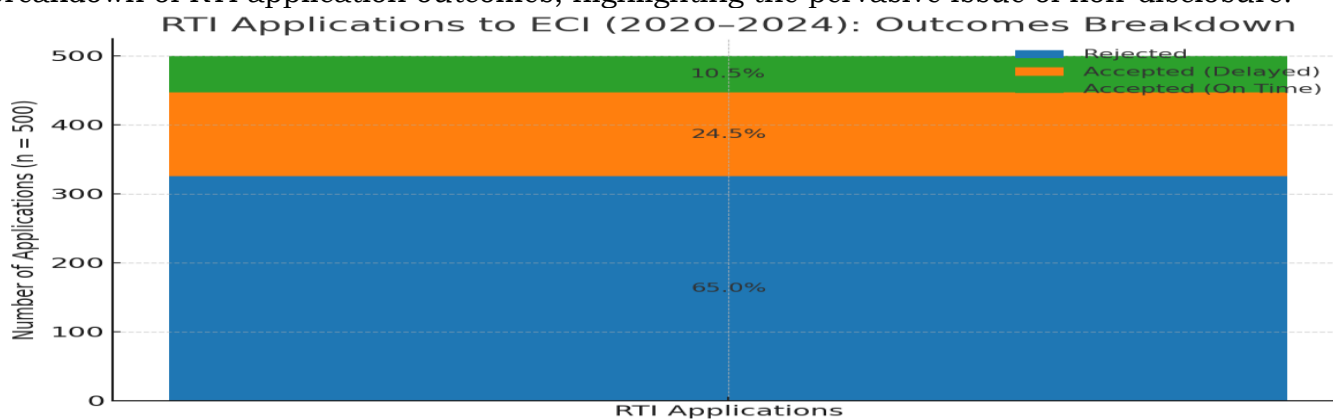
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Subject: ENGLISH

Read the case study given below and answer the questions that follow.

The Substantial Limitations on Citizen Access to Documents Asked for by the Election Commission In a recent study by the Public Advocacy Group on Electoral Transparency (PAGET), a concerning trend has emerged regarding the accessibility of information from the Election Commission of India (ECI). The study focused on the Right to Information (RTI) applications filed by citizens and organizations seeking crucial documents related to electoral bonds, voter data, and campaign finance. The findings reveal a significant number of applications either faced denial or were met with delays that rendered the information useless for public discourse.

An analysis of 500 RTI applications filed between 2020 and 2024 showed that a staggering 65% were rejected on grounds of 'confidentiality' or 'privacy concerns.' Furthermore, of the applications that were accepted, a majority took an average of 75 days to be processed, far exceeding the legally mandated 30-day period. This delay effectively stifled public scrutiny of electoral processes. The data, categorized by the type of information sought, indicates that requests for electoral bond details were the most frequently denied, at a rate of over 80%. This pattern suggests a systematic attempt to withhold information that could reveal the link between political parties and corporate donors. The graph below visually represents the breakdown of RTI application outcomes, highlighting the pervasive issue of non-disclosure.



Q1. Why did the study most likely focus on RTI applications filed between 2020 and 2024?)

This is so because this period ____.

- A. aligns with major electoral cycles, making the data highly relevant.
- B. was chosen randomly to ensure a broad sample size.
- C. represents the period with the highest number of RTI applicants.
- D. is when the Election Commission had the most changes in its leadership.

Q2. Identify the phrase in paragraph 1 that conveys the writer's reference to the limitations on accessing information.

Q3. Complete the following by selecting the correct option from those given in the brackets. (Paragraph 2)

A citizen, eager to understand the funding of a political party, files an RTI application for electoral bond details. The application is most likely to face (**acceptance / denial**) because this specific category of information has a (**high / low**) rate of rejection.

Q4. What does the writer mean by 'stifled public scrutiny' while citing the long processing delays? (Paragraph 2)

Q5. Complete the following with the correct option.

When the writer says, 'concerning trend' in the line 'a concerning trend has emerged regarding the accessibility of information,' s/he means that _____.

- A. the study's findings are alarming and point to a negative pattern.
- B. the Election Commission is openly providing all documents requested by citizens.
- C. citizens are asking for documents that are not relevant to elections.
- D. the number of RTI applications is decreasing, which is a good sign.

Q6. Complete the following appropriately.

The one likely reason why requests for electoral bond details were the most frequently denied is _____ . (Paragraph 2)

Q7. How are 'confidentiality' and 'privacy concerns' connected? (Paragraph 2)

Q8. Elaborate on how a lack of timely information from the ECI could negatively impact a democratic process.

Q9. Fill in the blank with ONE suitable word. (Paragraph 2)

The graph visually represents the (**prevalence / rarity**) of non-disclosure, highlighting the systemic refusal to provide information.

Grammar

Verb Forms and Tenses

Fill in the blank by using the correct form of the word/verb in the bracket:

- 1. He has (complete) his project, and now he can relax.
- 2. We (live) in this city for over a decade.

Articles and Determiners

Identify the error and write the correction in the given sentence:

- 3. Honesty is a best policy. Error: Correction:

Fill in the blank with the correct option from those given in the brackets:

- 4. They found (a / an / the) old book in the library.

Reported Speech -Report the following by completing the sentence correctly/rewrite.

- 5. "Please send the report by tomorrow," the manager said to her.

The manager requested her _____ the report by the next day.

- 6. He said to his brother, "Can you help me with this?"

Prepositions and Phrasal Verbs

Fill in the blank by choosing the correct option:

- 7. The new policy is effective (on / at / from) today.
- 8. I'm not going to argue (about / with / on) you over such a trivial matter.

Modal Verbs and Auxiliary Verbs

- 9. You (must / might) consult a doctor if the pain persists.
- 10. They (had / have / did) been waiting for a long time before the bus arrived.

Subject-Verb Agreement and Word Choice

Choose the correct option to fill the blank:

- 11. Every one of the students (is / are) present today.
- 12. Either she or her parents _____ (has/have) to attend the meeting.
- 13. The given question has an error. Select the option that correctly identifies the error and the correction. Who is the person who has done that?
 - o A. Error: Who Correction: Whom
 - o B. Error: has Correction: have
 - o C. Error: person Correction: people
 - o D. Error: that Correction: this

- 14. She bought much apples from the market, this evening. Error Correction

- 15. She is watching a movie last night. Error Correction

Writing Skills- Informal Letters

1. As Vaibhav, the Club in-charge of your school's Ecology Club, you strongly believe in the importance of starting Eco-Clubs in schools in the rural areas surrounding your city to promote the preservation and conservation of nature. Write a letter to the Education secretary of your city, in about 120 words, highlighting the significance of ecological awareness and suggesting the need to establish Eco Clubs in these schools.

2. As Amitha, the Vice Head Girl of Vidya Mandir, you are aware of the increasing prevalence of cyber-attacks and unauthorised exploitation of systems, networks, and technologies affecting individuals

across all demographics. Write a letter to the editor of a national daily in about 120 words, stressing the urgent need to promote digital security among all age groups. Highlight the challenges posed by cyber threats and propose practical solutions to address this growing issue.

Subject: MATHEMATICS

1. Prove that $\sqrt{3} + \sqrt{5}$ is irrational.
2. If the zeroes of the polynomial $x^2 + px + q$ are double in value to the zeroes of the polynomial $2x^2 - 5x - 3$ then find the value of p and q .
3. If $49x + 51y = 499$, $51x + 49y = 501$, then find the value of x and y .
4. If the sum of the zeroes of the polynomial $p(x) = (k^2 - 14)x^2 - 2x - 12$ is 1, then find the value of k .
5. A father's age is three times the sum of the ages of his two children. After 5 years his age will be two times the sum of their ages. Find the present age of the father.
6. Find a point on y-axis which is equidistant from the points $(-5, 2)$ and $(9, -2)$.
7. Find the value of k so that the equation $(k + 4)x^2 + (k + 1)x + 1 = 0$ has equal roots.
8. A train travelling at a uniform speed of 360 kmph, would have taken 48 minutes less to travel the same distance if its speed were 5 kmph more. Find the original speed of the train.
9. If $\tan \theta = \frac{1}{\sqrt{5}}$ find the value of $\frac{\operatorname{Cosec}^2 \theta - \sec^2 \theta}{\operatorname{Cosec}^2 \theta - \sec^2 \theta}$
10. If $\operatorname{Cosec} \theta + \cot \theta = p$, then prove that $\cos \theta = \frac{p^2 - 1}{p^2 + 1}$
11. If $x = p \sec \theta + q \tan \theta$ and $y = p \tan \theta + q \sec \theta$, then prove that $x^2 - y^2 = p^2 - q^2$
12. In $\triangle ABC$, P and Q are points on sides AB and AC respectively, such that $PQ \parallel BC$. If $AP = 2.4$ cm, $AQ = 2$ cm, $QC = 3$ cm and $BC = 6$ cm, find AB and PQ .
13. Metallic spheres of radii 6 cm, 8 cm and 10 cm respectively are melted to form a single solid sphere. Find the radius of the resulting sphere.
14. The interior of a building is in the form of a right circular cylinder of diameter 4.2 m and height 4 m surmounted by a cone. The vertical height of cone is 2.1 m. Find the outer surface area and volume of the building.
15. Find the value of $\frac{\sin A}{\sec A + \tan A - 1} + \frac{\cos A}{\operatorname{Cosec} A + \cot A - 1}$

Subject: PHYSICS

1. Ten identical wires each having a resistance of 1 ohm are connected in parallel. What is the total equivalent resistance?
2. In an electrical circuit two resistors 2 ohm and 4 ohm respectively are connected in series to a 6V battery. Calculate the heat dissipated by the 4 ohm resistor in 5s.
3. a. Assertion: one circuit with 15 A current rating is used for appliances such as geysers and air coolers.
Reason: Appliances with metallic body are connected to an earth wire with low resistance .
- b. Assertion: Tungsten metal is used for making filaments of incandescent lamps.
Reason: The melting point of tungsten is very low.
- c. Assertion: On freely suspending a current carrying solenoid, it comes to rest in geographical N-S direction.
Reason: One end of a current carrying solenoid behaves as a North pole and the other end as a South pole, just like a bar magnet.
- d. Assertion: The strength of the magnetic field produced at the centre of a current carrying circular coil increases on increasing the number of turns in it.
Reason: The current in each circular turn has the same direction and the magnetic field due to each turn then just adds up
4. Give reasons for the following:
 - a. There is either a convergence or divergence of magnetic field lines near the ends of a current carrying straight solenoid.
 - b. The burnt out fuse should be replaced by another fuse of identical rating.
5. Let the resistance of an electrical device remain constant, while the potential difference across its two ends decreases to one fourth of its initial value. What change will occur in the current through it? State the law which helps us in solving the above stated questions.

Subject: CHEMISTRY

1. When hydrogen sulphide gas is passed through a blue solution of copper sulphate, a black precipitate of copper sulphide is obtained and the sulphuric acid so formed remains in the solution. What type of reaction is it?
2. What happens when manganese dioxide reacts with hydrochloric acid? write the balanced equation and identify the substance oxidized, substance reduced, reducing agent and oxidizing agent.
3. A compound A is used in the manufacture of cement. When dissolved in water, it evolves a large amount of heat and forms compound B.
 - a. Identify A and B
 - b. Write chemical equation for the reaction of A with water.
 - c. List two types of reaction in which this reaction may be classified.
4. What is brine? What happens when an electric current is passed through it? Write down the chemical equation for it.
5. On heating X at 373 K, it loses water molecules and becomes Y. Y is a substance which doctors use for supporting fractured bones in the right position. Identify X and Y. How can X be re obtained from Y?
6. With the help of a labeled diagram, show an experimental set up for the reaction of magnesium with dilute sulphuric acid. give equation of the reaction involved.
7. A solution of copper sulphate was kept in an iron pot. After few days the iron pot was found to have a number of holes in it. Explain the reason in terms of reactivity. Write the equation of the reaction involved.
8. An ore on treatment with dil HCl gives the smell of rotten egg.name the type of this ore. How can the metal be obtained from its concentrated ore?
9. Explain the formation of Calcium chloride with the help of electron dot structure. Why do ionic compounds not conduct electricity in solid state but conduct electricity in molten and aqueous state?

Subject: BIOLOGY

1. The lining of the alimentary canal has certain muscles that contract rhythmically in order to push the food forward. This process is called:
 - a) Translocation
 - b) transpiration
 - c) peristalsis
 - d) autotropism
2. Why is it important to measure your current oxygen level?
 - a) To know how much blood is flowing
 - b) to know how much oxygen is flowing in the blood
 - c) to know how your brain is working
 - d) to know the heart rate
3. Root pressure is maximum when:
 - a) transpiration is very high and the absorption is very low
 - b) transpiration is very low and absorption is very high
 - c) both transpiration and absorption are very high
 - d) both transpiration and absorption are very low
4. Why do arteries have thick and elastic wall whereas veins have valves?
5. Amount of urine produced is generally decreases in summers as compared to other seasons if do not keep ourselves sufficiently hydrated. Justify.
6. What happens at the synapse between two neurons?
7. What is the function of receptors in our body? If the receptors do not work properly, what problems are likely to arise?
8. Which health condition is caused when insulin is not properly secreted in our body? What is the function of insulin?
9. Name is hormone that is growth inhibitor.
10.
 - a) Construct a food chain at 4 trophic levels comprising the following: snake, bird, grass, grasshopper
 - b) 20000 J of energy was transferred by the producer to the organism of second trophic level. Calculate the amount that will be transferred by the organisms of the 3rd trophic level to the organisms of 4th trophic level.

Subject: SOCIAL SCIENCE

1. How was oral culture entered print and printed materials- orally transmitted?
2. Why did some people in 18th century Europe think that print would bring enlighten and end despotism?
3. What was the effects of the spread of print culture for poor people in 19th century India?
4. Why did nationalist tensions emerge in Balkan state? How was it responsible for World War II?
5. Discuss about the role of Bismark for the Unification of Germany.

6. Discuss Bhodan - Gramdan Movement. Why it is called blood less revolution?
7. What are Technological and Institutional Reforms taken by the government for improvement of agriculture.
8. Describe any three Rain Water Harvesting practice in India. State the objectives of Rain Water Harvesting
9. Describe how Communities have conserved and protect forests and wildlife in India?
10. What is Chipko Movement? What is its impact on forest cover?
11. What is Land degradation? What are causes of land degradation and measures are taken to check?
12. How can be created more Employment? Explain.
13. Compare the employment condition in organized and unorganized sectors? What measures shall be taken to improve their conditions?
14. Why is the importance of Tertiary Sector rising last fourty years?
15. In what respects is the criterion used by the UNDP for measuring development different from the one used by the World Bank?
16. Why do we use averages? Are there any limitations to their use?
17. Mention different aspects of life in which women are discriminated or disadvantaged in India.
18. State how Caste is still dominated in Indian Politics.
19. Explain with examples different form of social differences or caste inequality are continuing in India
20. Define federalism. What are different types of Federations?
21. What makes India a federal country?

Subject: हिंदी (द्वितीय भाषा)

भाग – A : पद्यांश (स्पर्श भाग-2)

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| 1. साखी (कबीर) | |
| प्र.1. कबीर की साखियों में समाज को क्या संदेश दिया गया है? | प्र.2. 'माला फेरत जुग भया...' साखी का भाव स्पष्ट कीजिए। |
| 2. पद (मीराबाई) | |
| प्र.3. मीरा के पदों में भक्ति का कौन-सा रूप मिलता है? | प्र.4. मीरा ने शृंगार और भक्ति का किस प्रकार समन्वय किया है? |
| 3. पर्वत प्रदेश में पावस | |
| प्र.5. कवि ने वर्षा ऋतु के दृश्यों का वर्णन कैसे किया है? | प्र.6. इस कविता में कौन-कौन से अलंकारों का प्रयोग हुआ है? |
| 4. तोप | |
| प्र.7. तोप कविता में कवि ने किस व्यंग्य को प्रस्तुत किया है? | प्र.8. इस कविता से स्वतंत्रता संग्राम की कौन-सी झलक मिलती है? |

भाग – B : गद्यांश (स्पर्श भाग-2)

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| 1. बड़े भाईसाहब | |
| प्र.9. बड़े भाईसाहब का स्वभाव कैसा था? | प्र.10. छोटे भाई के प्रति उनका स्नेह किस प्रसंग में स्पष्ट होता है? |
| 2. डायरी का एक पन्ना | |
| प्र.11. इस पाठ से हमें क्या प्रेरणा मिलती है? | |
| 3. ततारों-वामीरो कथा | |
| प्र.12. इस कथा में समाज की कौन-सी समस्या उजागर की गई है? | प्र.13. कथा का शीर्षक सार्थक क्यों है? |
| 4. तीसरी कसम के शिल्पकार शैलेंद्र | |
| प्र.14. शैलेंद्र के जीवन से हमें क्या सीख मिलती है? | प्र.15. लेखक ने शैलेंद्र को 'शिल्पकार' क्यों कहा है? |

भाग – C : संचयन भाग-2

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| 1. सपनों के-से दिन | |
| प्र.16. इस पाठ में लेखक ने बाल्यकाल की किन बातों का चित्रण किया है? | प्र.17. बचपन की निष्कपटता लेखक को क्यों याद आती है? |
| 2. हरिहर काका | प्र.18. 'हरिहर काका' कहानी का उद्देश्य स्पष्ट कीजिए। |

भाग – D : व्याकरण

19. रेखांकित पदों के पदबंध का भेद बताएं। क) धिरे चलने वाली गाड़ियाँ प्रायः देर से पहुँचती हैं।
ख) अक्लमंदी दिखते हुए आपने बालक को गिरने से बचा लिया।
20. पाठ पर आधारित 5 मुहावरे लिखिए और वाक्यों में प्रयोग कीजिए।
21. निम्नलिखित शब्दों में समास विग्रह कर समास का नाम लिखिए – (क) आत्मनिर्भर (ख) देवालय
22. रचना के आधार पर वाक्य रूपांतरण कीजिए –
(क) बच्चा दौड़ कर मेरे पास आया। वाक्य को संयुक्त वाक्य में बदलिये। (ख) मोहित ने शादी के लिए कार्ड छपवाए। मिश्र वाक्य में बदले।

भाग – E : लेखन कार्य (20 अंक)

1. अनुच्छेद लेखन (किसी एक पर 100 शब्द): क) पर्यावरण संरक्षण (ख) सोशल मीडिया और छात्र (ग) आत्मनिर्भर भारत
2. पत्र लेखन (औपचारिक): अपने विद्यालय के प्रधानाचार्य को विद्यालय पुस्तकालय में नई पुस्तकें मंगाने हेतु पत्र लिखिए।
3. सूचना लेखन : विद्यालय में आयोजित होने वाली वाद-विवाद प्रतियोगिता की सूचना लिखिए।
4. विज्ञापन लेखन: एक पुस्तक विक्रेता के लिए आकर्षक विज्ञापन लिखिए।
5. लघु कथा लेखन: नैतिक शिक्षा देने वाली कोई लघु कथा लिखिए।
6. ई-मेल लेखन: अपने मित्र को परीक्षा तैयारी संबंधी सुझाव देते हुए ई-मेल लिखिए।

Subject: తెలుగు (ద్వితీయ భాష)

1. ఈ క్రింది వ్యాసాలను చదివి రాయండి.
 - A) జాతీయ సమైక్యత.
 - B) రాజకీయాల్లో విద్యార్థుల పాత్ర
 - C) విద్యార్థులు క్రమశిక్షణ
2. కంప్యూటర్ విద్య ఆవశ్యకాన్ని వివరిస్తూ మీ మిత్రుడికి లేఖ రాయండి.
3. ఈ క్రింది పద్యాలకు ప్రతిపదార్థాలు రాయండి.
 - A) ఎంతయు వృద్ధులై తమకు నీవొకరుండవ.....
 - B) అనుపమ మెట్టివారలకు నందదు.....
 - C) పలుచని నీచ మానవుడు పాటి.....
 - D) నీతి ప్రాడవిహారులైన నిపునుల్
4. ఉపమా , క్రమాలంకారం చదివి, ఉదాహరణలతో రాయుము .

Subject: संस्कृतम् (द्वितीय भाषा)

1. संस्कृते पञ्च वाक्यानि अनुवादं कुरुत ।
2. स्वमित्रं प्रति स्व विद्यालयस्य विज्ञानयात्रा विषये लिखत ।
3. पञ्च समास वाक्यानि लिखत ।
4. पञ्च वाच्य प्रश्नान् लिखत ।
5. पञ्च संधि पदानि लिखत ।