



DELHI PUBLIC SCHOOL VISAKHAPATNAM ASSIGNMENT



June – July 2026

Class: X

Date of Submission: on or before 7.08.2026

Subject: ENGLISH

Reading Comprehension – Case Study Based (10 Marks)

Case Study: Community Library Initiative

A group of students in Green Valley School noticed that many children in their neighbourhood did not have access to books. They collected old storybooks, novels, magazines, and dictionaries from families and friends. With the help of their teachers and local volunteers, they converted an unused room in the community centre into a small library.

Every weekend, students conducted reading sessions, storytelling activities, and vocabulary games for younger children. Gradually, the library became a place where children developed the habit of reading, improved their communication skills, and gained confidence. Many parents also started borrowing books and reading with their children.

The project not only promoted literacy but also encouraged teamwork, leadership, empathy, and a sense of responsibility among the student volunteers. Inspired by its success, neighbouring communities began establishing similar libraries.

Q1. What was the main problem identified by the students? (1 Mark)

a) Lack of playgrounds b) Lack of access to books c) Lack of internet facilities d) Lack of teachers

Q2. Which two values were developed among the student volunteers through this project? Give evidence from the passage. (2 Marks)

Q3. Complete the following table based on the case study. (2 Marks)

Initiative	Outcome
Weekend reading sessions	_____
Community library	_____

Q4. Which statement best reflects the central idea of the passage? (1 Mark)

a) Reading is only useful for children. b) Small community initiatives can create meaningful social change. c) Libraries are expensive to maintain. d) Storytelling is more important than reading.

Q5. "The project not only promoted literacy but also encouraged teamwork and leadership."

What does this suggest about community service? (2 Marks)

a) It benefits only those who receive help. b) It develops life skills in those who serve as well. c) It wastes students' study time. d) It is useful only in schools.

Give one reason for your answer.

Q6. If your school plans to start a similar project, suggest two practical steps that would ensure its success. (2 Marks)

Grammar Practice

A. Change the Voice (Passive Voice) (3 Marks)

The carpenter is making a beautiful wooden table.

They have completed the project before the deadline.

The principal will announce the winners tomorrow.

B. Reported Speech (5 Marks)

Statements (2)

Riya said, "I have finished my homework."

The teacher said, "The Earth revolves around the Sun."

Interrogatives (2)

Rahul said to his friend, "Where are you going?"

Mother said to me, "Did you complete your assignment?"

Imperatives (1)

The coach said to the players, "Practice regularly."

C. Modals (2 Marks)

You ____ wear a helmet while riding a motorcycle. (must / can)

____ you please help me carry these books? (Could / Must)

D. Tenses (5 Marks)

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

She ____ the piano every evening. (practice)

By the time we reached the station, the train _____. (leave)

Look! The children ____ in the rain. (play)

They ____ a new bridge since last year. (build)

If it ____ tomorrow, we will cancel the picnic. (rain)

– Competency-Based Long Answer Questions (150 words each)

1. From the Diary of Anne Frank----Q1. Anne believes that writing in her diary helps her understand herself better. Today, many teenagers express themselves through social media instead of personal journals. Compare these two ways of expressing emotions. Which do you think is more effective for self-reflection? Justify your answer with reference to the lesson.

2. From Mijbil the Otter ----Q2. Imagine your school plans to adopt rescued animals and create awareness about wildlife conservation. Based on Gavin Maxwell's experience with Mijbil, explain how human-animal relationships can inspire responsibility towards nature.

3. From The Thief's Story----Q3. Hari Singh returned the stolen money instead of running away. If you were in Hari Singh's place, would you have made the same decision? Justify your answer in about 50–60 words, using evidence from the story. Stoh Yadav fe as an eample, explain how determination and courage help individuals achieve success despite social and personal obstacles.

4. From Trees (Poem)-----Q4. Many cities are witnessing rapid urbanisation and shrinking green spaces. Based on the poem Trees, explain why preserving trees is essential for a healthy and balanced environment.

5. From A Question of Trust -----Q5. Horace Danby's careful planning did not guarantee success. Analyse how overconfidence and wrong assumptions can lead to failure. Support your answer with examples from the story.

Subject: MATHEMATICS

Q1. Find the value of k for which the system of equations $x+2y = 3$ and $5x + ky + 7 = 0$ has no solution.

Q2. Solve the following pair of linear equations for x and y using the elimination method:

$$x + y = 14$$

$$x - y = 4$$

Q3. On comparing the ratios a_1/a_2 , b_1/b_2 , and c_1/c_2 , find out whether the lines representing the following pair of linear equations intersect at a point, are parallel, or coincide:

$$5x - 4y + 8 = 0$$

$$7x + 6y - 9 = 0$$

Q4. Half the perimeter of a rectangular garden, whose length is 4 m more than its width, is 36 m. Find the dimensions of the garden.

Q5. Solve the following pair of linear equations using the substitution method:

$$2x + 3y = 11$$

$$2x - 4y = -24$$

Q6. Find the discriminant of the quadratic equation $2x^2 - 4x + 3 = 0$, and hence find the nature of its roots.

Q7. Find the roots of the quadratic equation $x^2 - 3x - 10 = 0$ by factorisation.

Q8. Find the values of k for which the quadratic equation $2x^2 + kx + 3 = 0$ has two equal roots.

Q9. Solve the quadratic equation for x using factorisation: $6x^2 + x - 12 = 0$

Q10. Find two consecutive positive integers, sum of whose squares is 365.

Q11. Find the 10th term of the AP: 2, 7, 12, ...

Q12. Find the sum of the first 22 terms of the AP: 8, 3, -2, ...

Q13. Determine the AP whose 3rd term is 5 and the 7th term is 9.

Q14. Which term of the AP: 21, 18, 15, ... is -81?

Q15. Find the number of terms in the AP: 7, 13, 19, ..., 205.

Q16. In $\triangle ABC$, $DE \parallel BC$ such that D is on AB and E is on AC. If $AD = 1.5$ cm, $DB = 3$ cm, and $AE = 1$ cm, find the length of EC.

Q17. State and prove the Basic Proportionality Theorem (Thales Theorem).

Q18. In the given figure, if $LM \parallel CB$ and $LN \parallel CD$, prove that $AM/AB = AN/AD$.

Q19. A vertical pole of length 6 m casts a shadow 4 m long on the ground and at the same time a tower casts a shadow 28 m long. Find the height of the tower.

Q20. If in two triangles, corresponding angles are equal, then show that their corresponding sides are in the same ratio and hence the two triangles are similar (AAA Similarity Criterion).

Q21. CASE-BASED STUDY QUESTION:

Students of a school are celebrating 'Go Green' week. They decided to plant trees in a triangular park nearby. To measure the space, the mathematics teacher set up some ground measurements using the similarity of triangles.

Two poles, AB and CD, are standing vertically upright on a level ground. Pole AB is 2 meters tall and casts a shadow of 3 meters. At the same time, the larger flagpole CD casts a shadow of 15 meters. Based on this practical scenario, answer the following questions:

- Why are the triangles formed by the poles and their respective shadows similar? Name the similarity criterion.
- Find the height of the flagpole CD.
- If another small plant of height 0.8 meters is planted, what will be the length of its shadow under the same conditions?

Subject: PHYSICS

- A freely suspended magnet always points in the
 - East-West direction
 - North-South direction
 - East- South direction
 - North- West direction
- As we move away from a current-carrying conductor, the spacing between the magnetic field lines
 - Increase
 - decrease
 - remains equidistant
 - becomes parallel
- The magnetic field lines inside the solenoid are in the form of
 - Curved lines
 - Circular lines
 - Parallel straight lines
 - Zig-zag lines
- Assertion: A charge, whether stationary or in motion produces a magnetic field around it
Reason: Moving charges produces only electric field in the surrounding space.
- Assertion: A current carrying conductor produces magnetic field around it.
Reason: because conductor is a magnetic material.
- Draw Magnetic field lines around the bar magnet.
- (a) State the rule which is used to detect the magnetic field around current carrying circular coil.
(b) Draw the magnetic field lines around the current carrying circular coil.
- State the properties of magnetic field lines.
- What are the properties of the magnetic field produced by a current- carrying solenoid.
- Write the factors on which the force acting on current-carrying conductor depend.

Subject: CHEMISTRY

- Differentiate strong and weak acids.
- Identify the compound X on the basis of the reactions given below. Also write the name and chemical formulae of A, B, C.
$$X + Zn \rightarrow A + H_2 ; \quad X + HCl \rightarrow B + H_2O ; \quad X + CH_3COOH \rightarrow C + H_2O$$
- Name the acid and base from which the following salts are obtained:
(i) sodium sulphate (ii) Ammonium Chloride (iii) Potassium acetate.
Classify the type of salt and mention its approximate pH.
- Why is water required for acidic or basic action? Explain giving suitable equations.
- Crystals of a substance changed their colour on heating but regained their colour when allowed to cool. Explain the phenomenon involved. Write equation. Draw a labelled diagram to explain this activity.
- A compound X of sodium is used as an antacid.
 - Name the compound and write its formula.
 - Write balanced equation for the thermal decomposition of X.
 - Give one more use of compound X.
 - What happens if the compound X is directly used in cooking?
 - Name the compound with which X should be mixed to avoid the above problem. Give equation of its reaction with this compound.
- Write balanced equations of metals sodium, magnesium, aluminium and iron with oxygen, water, dilute acids and aqueous solutions.

8. Metal M reacts with oxygen to form metal oxide MO. This oxide reacts with moisture and CO₂ to form a basic carbonate. Metal M prevents rusting of iron. Identify M and explain the reactions.

Subject: BIOLOGY

1. The gap between two neurons is called a
(a) Axon (b) Synapse (c) Impulse (d) Dendrite
2. When something comes close to our eyes, we automatically blink. Which reflex arc component is functioning while blinking the eyes?
(a) Sensory neurons (b) Effector muscles (c) Motor neurons (d) Spinal cord
3. Assertion: Receptors are the specialized tips of nerve fibers.
Reason: Receptors are present in the sense organs of the animals.
4. (a) An old man is advised by his doctor to take less sugar in his diet. Name the disease from which the man is suffering.
(b) Mention the hormone due to an imbalance of which he is suffering from this disease.
(c) Which endocrine gland secretes this hormone?
(d) Name two hormones that are secreted from the pituitary gland.
5. Why must we conserve our forests? List two factors responsible for causing deforestation.
6. (i) If 10,000 J solar energy falls on green plants in a terrestrial ecosystem, what percentage of solar energy will be converted into food energy?
(ii) In a food chain, which organisms are typically the primary consumers?
(iii) What are the consequences of removing one element from a food chain?
7. (a) Explain the role of UV radiation in producing ozone layer.
(b) Mention the reaction involved.
(c) Why is excessive use of CFCs a cause of concern?

Subject: SOCIAL SCIENCE

1. Compare the advantages and disadvantages of Multipurpose River Valley Projects.
2. Describe the procedure of roof top rainwater harvesting.
3. Mention different aspects of life in which women are discriminated or disadvantaged in India.
4. State how caste inequalities are still continuing in India.
5. Do you think that the classification of economic activities into primary, secondary, and tertiary sector is useful? Explain how.
6. Compare the employment condition in organized and unorganized sectors.
7. Explain the main features of proto- industrialization.

Subject: हिंदी (द्वितीय भाषा)

- 1) पदबंध पर आधारित प्रश्नों के उत्तर दीजिए :
 - i. 11 बजे मारवाड़ी बालिका विद्यालय की लड़कियों ने इंडोत्सव मनाया। (संज्ञा पदबंध छाँटिए।)
 - ii. जगह-जगह फोटो उतर रहे थे। (क्रिया पदबंध छाँटिए।)
 - iii. नोटिस निकल गया था कि मोनुमेंट के नीचे ठीक चार बजकर चौबीस मिनट पर झंडा फहराया जाएगा। (क्रिया-विशेषण पदबंध छाँटिए।)
 - iv. कुछ काम करने वाले लोग थे। (रेखांकित पदबंध का भेद लिखिए।)
 - v. मैदान के मोड़ पर पहुँचते ही पुलिस ने लाठियाँ चलानी शुरू कर दी। (रेखांकित पदबंध का भेद लिखिए।)
- 2) 'रचना के आधार पर वाक्य रूपांतरण' पर प्रश्नों के उत्तर दीजिए:
 - i. उत्सव का क्या मतलब है, लड़कियों को समझाया गया। (सरल वाक्य में बदलिए।)
 - ii. दो-तीन बजे कई आदमियों को पकड़ लिया गया। (रचना की दृष्टि से वाक्य-भेद लिखिए।)
 - iii. वहाँ रहने वाले तर्तारा को निकोबारी बेहद प्रेम करते थे। (संयुक्त वाक्य में बदलिए।)
 - iv. जब बिहारी सात-आठ साल के ही थे तभी इनके पिता ओरछा चले आए। (रचना की दृष्टि से वाक्य-भेद लिखिए।)
 - v. सुभाष बाबू का जुलूस ठीक चार बजे मोनुमेंट पहुँच गया। (मिश्र वाक्य में बदलिए।)
- 3) 'समास' पर आधारित प्रश्नों के उत्तर दीजिए:
 - i. 'शब्दहीन' सामासिक पद का विग्रह कीजिए और भेद भी लिखिए।

- ii. 'अव्ययीभाव' समास का एक उदाहरण दीजिए।
- ii. 'सप्तसिंधु' किस समास का उदाहरण है और कैसे?
- v. 'महान है आत्मा जिसकी' विग्रह का समस्त पद बनाकर भेद का नाम लिखिए।
- v. 'विद्या रूपी धन के सामने सभी धन तुच्छ हैं।' निम्नलिखित वाक्य में रेखांकित पदों की जगह उपयुक्त समस्त पद लिखिए।
- 4) मुहावरों पर आधारित प्रश्नों के उत्तर लिखिए:
 - i. मेले में तताँरा वामीरो को एक साथ देखकर वामीरो की माँ आग-बबूला हो उठी।' - इस वाक्य में से मुहावरा छाँटकर उसका वाक्य में प्रयोग कीजिए।
 - ii. 'खुशी का ठिकाना न रहना' - मुहावरे का वाक्य में इस प्रकार प्रयोग कीजिए कि अर्थ स्पष्ट हो जाए।
 - ii. 'विरोध करना' अर्थ के लिए उचित मुहावरा लिखिए।
 - v. रिक्त स्थान की पूर्ति उचित मुहावरे द्वारा कीजिए।
परीक्षा में प्रथम आने के लिए रात-दिन _____ पढ़ती है।
 - v. भाई साहब के सूक्ति-बाणों से मेरी तो _____।

Subject: తెలుగు (ద్వితీయ భాష)

- I. క్రింది వానికి సమాధానములు రాయండి.
 - 1. ఉత్పల మాల 2. చంపకమాల - ఉదాహరణ చూపిస్తూ వాటి నియమాలు రాయండి.
- II. సమాసములు:
 - 1. ద్విగు సమాసం. 2. ద్వంద్వ సమాసం
- III. అలంకారములు:
 - 1. ఉపమాలంకారం 2. ఉత్పేక్షాలంకారం
- IV. లేఖ: 1. నీవు చూసిన చారిత్రక ప్రదేశాన్ని గురించి వివరిస్తూ మిత్రునికి లేఖ రాయము.

Subject: संस्कृतम् (द्वितीय भाषा)

- 1. दश सन्धि प्रश्नान् लिखत । (शिशुलालनम्, जननी तुल्यवत्सला)
- 2. एकं चित्रम् लिखत ।
- 3. संस्कृते पञ्च वाक्यानि अनुवादं कुरुत ।
- 4. दश प्रश्ननिर्माण वाक्यानि लिखत । (शिशुलालनम्, जननी तुल्यवत्सला)