



DELHI PUBLIC SCHOOL VISAKHAPATNAM ASSIGNMENT

April – May 2025-26



Class: X

Date of Submission: on or before 13.6.2025

Subject: ENGLISH

A. Do as directed (Assignment Norw Book)

1. Fill in the blanks with the correct verb.

- a) The bouquet of roses _____ very beautiful.
- b) Neither the teacher nor the students _____ present in the class.
- c) Mathematics _____ my favourite subject.
- d) The committee _____ made its decision.

2. Fill in the blanks with suitable verb forms to complete the sentences.

- a) She _____ a book when I called her. (Past Continuous)
- b) They _____ already _____ their homework. (Present Perfect)
- c) By next year, we _____ shifted to a new house. (Future Perfect)
- d) He _____ the guitar very well. (Simple Present)

3. Change the following into reported speech:

- i) She said, "I am going to the market."
- ii) Rahul said to Mohit, "I went to the stadium yesterday."
- iii) He asked, "Are you coming to the party?"
- iv) She said, "When do you plan to fly?"
- v) The teacher said, "Complete your assignments."

4. Change the following sentences into passive voice .

- a) She writes a letter.
- b) He was cleaning the room.
- c) They will complete the project by tomorrow.
- d) She has submitted the report.
- e) The gardener waters the plants every morning.

Project Work Instructions

Choose any one topic from the project suggestions given at the end of each unit in Words & Expressions – 2.

Use 4 A4 size sheets and attach them inside the textbook.

Ensure your project has:

A proper write-up (clearly written content based on the topic)

Pictorial depictions (drawings, images, or illustrations related to the topic)

Follow all specific instructions given in the textbook for the selected project.

Book Review (100–120 words)

(Assignment Note Book)

Choose any one book by one of the following authors:

Dr. APJ Abdul Kalam, Anton Chekhov, O. Henry, Mary Shelley, Rick Riordan, Mark Twain, Jane Austen, Agatha Christie

Format:

1. Overview of the Book (~30 words)

Give a brief idea about what the book is about.

2. Theme (30–40 words)

Describe the central idea or message of the book.

3. Most Interesting Characters (30 words each)

Choose one or two main characters and describe what makes them stand out.

4. Why You Found It Interesting (30–50 words)

Share your personal response – what you enjoyed, learnt or felt while reading it.

Parts of Speech

Write the definition and give two examples for each of the following:

Subject: MATHEMATICS

- 1 Find the zeroes of the polynomial $p(x) = x^2 + \frac{4}{3}x - \frac{4}{3}$
- 2 Prove that $\sqrt{7}$ is irrational.
- 3 The perimeter of a right triangle is 60 cm and its hypotenuse is 25 cm. Find the lengths of other two sides of the triangle.
- 4 A train travels a distance of 480 km at a uniform speed. If the speed had been 8 km/h less, then it would have taken 3 hours more to cover the same distance. Find the speed of the train.
- 5 A bag contains some red and blue balls. Ten percent of red balls when added to twenty percent of the blue balls, give a total of 24. If three times the number of red balls exceeds the number of blue balls by 20, find the number of red and blue balls.
- 6 Prove that $\frac{1}{\sqrt{3}}$ is an irrational number.
- 7 If the zeroes of the polynomial $x^2 + ax + b$ are in the ratio 3 : 4, then prove that $12a^2 = 49b$
- 8 Three sets of Physics, Chemistry and Mathematics books have to be stacked in such a way that all the books are stored subject- wise and the height of each stack is the same. The number of Physics books is 144, the number of Chemistry books is 180 and the number of Mathematics books is 192. Assuming that the books are of same thickness, determine the number of stacks of Physics, Chemistry and Mathematics books.
- 9 A two-digit number is such that the product of its digits is 12. When 36 is added to this number, the digits interchange their places. Find the number.
- 10 A student scored a total of 32 marks in class tests in Mathematics and Science. Had he scored 2 marks less in science and 4 marks more in Mathematics, the product of his marks would have been 253. Find his marks in the two subjects.
- 11 Vijay invested certain amounts of money in two schemes A and B, which offer interest at the rate of 8% per annum and 9% per annum respectively. He received Rs1,860 as the total annual interest. However, had he interchanged the amounts of investments in the two schemes, he would have received Rs 20 more as annual interest. How much money did he invest in each scheme?
- 12 If $\text{HCF}(98, 28) = m$ and $\text{LCM}(98, 28) = n$, then find the value of $n - 7m$.
- 13 If α and β are the zeroes of polynomial $3x^2 + 6x + k$ such that $\alpha + \beta + \alpha\beta = -\frac{2}{3}$, then find the value of k .
- 14 Find the greatest number which divides 70 and 125, leaving remainders 5 and 8 respectively.
- 15 If $x = 1$ and $y = 2$ is a solution of the pair of linear equations $2x - 3y + a = 0$ and $2x + 3y - b = 0$, then show that $2a = b$

Subject: PHYSICS

1. Define Ohm's law. Give its mathematical expression and draw the graph .
2. Calculate the amount of heat developed in an electric iron of resistance 20 ohm when it draws a current of 5 A in 30 s
3. Two lamps one rated 100W at 220 V and the other 60W at 220 V, are connected in parallel to electric mains supply at 220 V. Draw a circuit diagram to show this arrangement and calculate the current drawn by the two lamps from the mains.
4. List the factors on which the resistance of a conductor in the shape of a wire depends.
5. Why are metals good conductors of electricity where as glass is a bad conductor of electricity. Give reason.
6. Why are alloys commonly used in electrical heating devices? Give reason

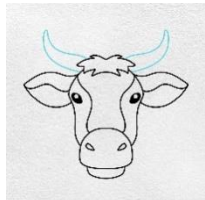
Subject: CHEMISTRY

1. Name the type of reactions
 - a. $\text{Zn} + 2(\text{CH}_3\text{COOH}) \rightarrow (\text{CH}_3\text{COO})_2\text{Zn} + \text{H}_2$
 - b. $\text{NaCl} + \text{AgNO}_3 \rightarrow \text{AgCl} + \text{NaNO}_3$
 - c. $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$
2. Balance the following equations
 - a. Lead nitrate + potassium iodide $\rightarrow$ lead iodide + potassium nitrate
 - b. Zinc carbonate $\rightarrow$ zinc oxide + carbon dioxide
 - c. Aluminium + cupric chloride $\rightarrow$ Aluminium chloride + copper

- Identify the substance oxidized and substance reduced. Write down the oxidizing agent and reducing agent too in the following reactions
 - $\text{CuO} + \text{H}_2 \rightarrow \text{Cu} + \text{H}_2\text{O}$
 - $\text{Fe}_2\text{O}_3 + 2\text{Al} \rightarrow \text{Al}_2\text{O}_3 + 2\text{Fe}$
- Define a balanced equation. Why should we balance a chemical equation.
- Define a decomposition reaction. How can we say that electrolysis of water and blackening of silver bromide when exposed to sunlight are decomposition reactions? Mention the type of energy involved in each case.

Subject: BIOLOGY

- The immediate end product of glucose breakdown in aerobic respiration is:
 - carbon di oxide
 - water
 - pyruvate
 - lactic acid
- If salivary amylase is lacking in the saliva, which of the following events in the mouth cavity will be affected?
 - Proteins breaking down into amino acids
 - Starch breaking down into sugars
 - Fats breaking down into fatty acids and glycerol
 - Absorption of vitamin
- Why is small intestine in herbivores longer than in carnivores?
- Look at the diagram below showing a cow, a human, and a lion.



- Can you explain why these organisms are classified as heterotrophs? What do they all have in common regarding how they obtain their food?
- During one cycle how many times blood goes to heart of fish and why?
 - Draw a diagram of human respiratory system and label :
 - larynx
 - trachea
 - lungs
 - bronchi
 - Where is urine stored and how is it excreted out?
 - Explain why plants have low energy needs as compared to animals.

Subject: SOCIAL SCIENCE

- Define Land degradation. What are causes of land degradation and what steps can be taken to control land degradation?
- What is Resources planning? explain.
- Describe how Communities have conserved and protect forests and wildlife in India?
- Describe any three measures adopted by the Belgium government to accommodate regional and cultural diversities.
- State the moral and prudential reasons of power sharing with examples from the Indian context?
- Define power sharing. What are different forms of power sharing?
- What was Proto – industrialization? Why did merchants of town go to villages for production?
- Why was Industrial production in India increased during World War I?
- How did British Industrialist capture Indian markets by advertisement?
- Why do we use averages? Are there any limitations to their use? Explain.
- Why is the issue of sustainability? Why is important for development?
- What is the main criterion used by the World Bank in classifying different countries? What are the limitations of this criterion, if any?

Note- Holiday Homework:

- Project – On Consumer Rights/Social Issue /Sustainable Development (Anyone of above topic to be done in Social Science Lab. Manual).
- Answer to each of the following question to be written 120 words.

- Define Globalisation. What is the tariff issue between India and USA, of present Donald Trump regime? Analyse
- Describe the role of Alluri Sitaram Raju in the Freedom Movement of India.
(Assignment and other holiday home works to be written in Long 88 pages note book).

Subject: हिंदी (द्वितीय भाषा)

1. मुंशी प्रेमचंद किन्हीं तीन उपन्यासों के नाम लिखिए।
2. उपन्यास सम्राट किसे कहा जाता है? खून की कहानी संग्रह का क्या नाम है?
3. प्रेमचंद की किस रचना पर प्रतिबंध लगा दिया था?
4. बड़े भाई साहब प्रेमचंद की कहानी संग्रह के किस भाग में संग्रहित है?
5. प्रेमचंद जी कहते हैं कि परीक्षा पास कर लेना कोई बड़ी बात नहीं, असल चीज है- बुद्धि का विकास। इसी बात को कबीर ने अपने किस दोहे में बताया है?
6. संत कबीर की रचना का नाम लिखिए।
7. संत कबीर की भाषा का क्या नाम था?
8. आपके पाठ्यक्रम का कौन सा दोहा आपको सबसे अधिक पसंद आया और क्यों?
9. संत कबीर किस तरह के ईश्वर के आराधक थे?
10. संत कबीर के साथ किस तरह के लोग चल सकते हैं?

Subject: తెలుగు (ద్వితీయ భాష)

- I. క్రింది పద్యములు ప్రతిపదార్థాలు రాయండి.
1. అనుపమ నెట్టివారలకు నందదు.....
2. ఎంతయు వృద్ధులై తమకు నీ.....
- II. క్రింది వానికి ప్రశ్న జవాబులు రాయండి.
1. ప్రత్యక్ష దైవాలు పార్యభాగ ఆధారంగా ధర్మవ్యాధుని వ్యక్తిత్వాన్ని విశ్లేషించండి.
2. బాల్య వివాహాల వల్ల నష్టాలు తెలపండి.
3. బతుకుజంప పాఠం ఆధారంగా ఎల్లమ్మ వ్యక్తిత్వాన్ని విశ్లేషించండి.
- III. క్రింది వానికి లేఖ రాయండి.
1. మీరు సందర్శించిన ప్రదేశం గురించి నీ మిత్రునికి లేఖ రాయండి.
- IV. వ్యాకరణాంశములు:
1. ఉత్పలమాల
2. చంపకమాల- చందస్సు లక్షణాలు రాసి, పద్యపాదములకు గణవిభజన చేయండి.
3. ద్వంద్వ సమాసం
4. ద్విగు సమాసం - లక్షణాలు రాసి ఉదాహరణలు రాయండి.

Subject: संस्कृतम् (द्वितीय भाषा)

1. संस्कृते पञ्च वाक्यानि अनुवादं कुरुत।
2. पञ्च – पञ्च समास वाक्यानि लिखत। (बुद्धिर्बलवती सदा - शुचिपर्यावरणम्)
3. एकं पत्रं पूरयित्वा लिखत।
4. पञ्च -पञ्च प्रश्ननिर्माण वाक्यानि लिखत। (बुद्धिर्बलवती सदा - शुचिपर्यावरणम्)
5. पञ्च - शब्दर्थान् लिखत। (शुचिपर्यावरणम् - बुद्धिर्बलवती सदा)