



# DELHI PUBLIC SCHOOL VISAKHAPATNAM ASSIGNMENT



April – May 2026

Class: X

Date of Submission: on or before 15.06.2026

Subject: ENGLISH

FORMAT FOR OFFICIAL LETTERS

Write a letter to the Sales Manager, MMS Books, Ashok Vihar, Delhi, placing order for five titles of books that you need for educational purpose. You are Sanjeev/Sanjana, 12/CA, Model Town, Kurukshetra.

12/CA

Model Town

Kurukshetra

17th December 2020

MMS Books

Ashok Vihar

Delhi – 88

Subject – Placing Order of text books

Dear Sir/Ma'am,

With reference to our enquiry dated 20 November 2020 (Ref. No. 56B/2020), I, Sanjeev Kumar, would like to thank you for your prompt response and the details shared. A panel of our firm has studied your brochure and price list and feels satisfied to place an order for the same. The following chart describes the products we intend to buy along with the author, quantity, etc.

Title	Author	Quantity	Year
Modern Eco	Dr. Singh	35	2018
Business 2016	Mathew MN	40	2016
Mental Disorders	Dr. Yashank B	55	2017
Ageing in 30s	Ruchir Dua	66	2019

Kindly be reminded that each of the title carries 20% student discount and 5% winter sale discount. As per our earlier communication, we have requested to send only books without binding. Also, make sure that every single book is devoid of any kind of printing-binding-packing defect. The total amount of 1200 rupees will be paid at the time of delivery.

Yours sincerely

Sanjeev

Practice Questions

1. Write a letter placing an order for sports equipment for your school.
2. Write a letter of complaint about defective goods received.
3. Write a letter of enquiry about a course offered by an institute.

FORMAT FOR ANALYTICAL PARAGRAPH WRITING

Question : Internet Activities by Age Group

Activity %	Teens	20s	30s	40s	50s	60s	70+
Get News	76	73	76	75	71	74	70
Online games	81	54	37	29	25	25	32
Downloads	52	46	27	15	13	8	6
Product research	0	79	80	83	79	74	70
Buying a product	43	68	69	68	67	65	41
Searching for people	5	31	23	23	24	29	27

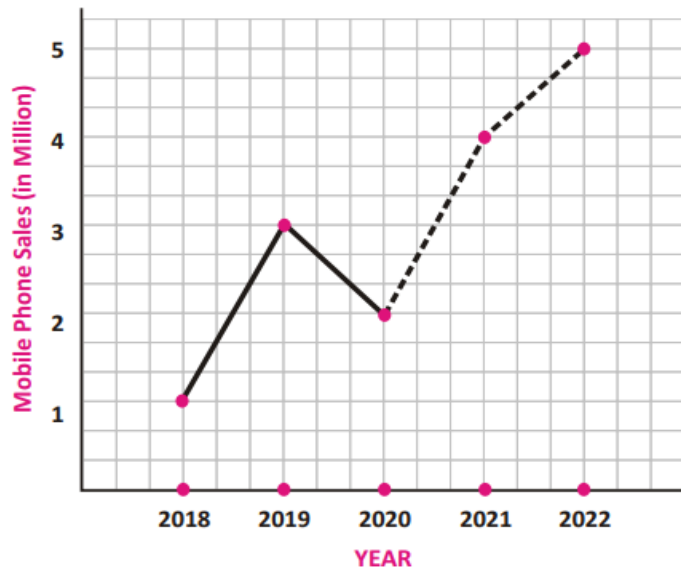
Answer : The given table suggests the internet activities of six age groups ranging from teens to those in their seventies for six different kinds of activities on the internet. The table shows that the younger generation is more interested in online games and news, whereas the older generation spends time on the internet in order to research and buy products. It is evident from the table that 81% of the teens mainly use the internet for playing online games, and many are also interested in news and downloads as well as in buying products.

The middle-age group, that is, people in the age group ranging from 20s to 60s, is highly interested in getting news, doing product research and buying products, with the percentage ranging from 70–80%. The internet activity which gets the least time is searching for people. All the age groups spend less than 30% of their internet time on the same. The amount of time spent on downloads decreases with age and gets as low as 6% for the people in their 70s.

Overall, the table suggests that teenagers are most likely to spend time playing games and doing downloads. On the other hand, older people, on an average, are interested in researching and buying products. It is also significant to note that people spend the least amount of time when it comes to searching for other people online.

Question 1:

- The following line graph shows the number of mobile phones sold in India between 2018 and 2020 and their projected sales in 2021 and 2022. Study the information carefully and then write a paragraph in about 150 words analysing the data. Make comparisons wherever appropriate and draw conclusions.



Question 2:

The infographic below shows differences and similarities between the symptoms of Corona Virus and the common Cold Virus. Study the information carefully and then summarise it in the form of an analytical paragraph. Make comparisons and draw conclusions wherever appropriate.

Coronavirus vs Cold Symptoms

Aspects	Coronavirus symptoms	Cold symptoms
Appearance of Symptoms	Covid-19 symptoms appear 2 to 14 days after exposure	Common cold symptoms appear within the first 2 to 3 days of infection
Fever	Common	Rare
Cough	Common – usually a dry cough	Mild
Sneezing	No	Common
Aches and pains	Sometimes	Common
Runny Nose	Rare	Common
Sore Throat	Sometimes	Common
Diarrhoea	Rare	No
Headaches	Sometimes	Rare
Shortness of Breath	Sometimes	No

### GRAMMAR – REPORTED SPEECH

#### 1. Statements (Examples)

- Direct: She said, “I am tired.”
- Indirect: She said that she was tired.
- Direct: He said, “I will come tomorrow.”
- Indirect: He said that he would come the next day.

#### Practice (Convert into Indirect Speech)

1. She said, “I like music.”
2. He said, “I am going to school.”
3. They said, “We have finished our work.”
4. Riya said, “I will help you.”
5. He said, “I was busy.”

#### 3. Imperatives (Examples)

- Direct: He said, “Open the door.”
- Indirect: He told me to open the door.
- Direct: She said, “Do not shout.”
- Indirect: She told me not to shout.

#### Practice

1. He said, “Close the window.”
2. She said, “Bring me a pen.”
3. The teacher said, “Do your homework.”
4. Mother said, “Do not waste time.”
5. He said, “Help the poor.”

### SECTION D: TENSES

1. She \_\_\_\_\_ (finish) her work before the teacher arrived.
2. They \_\_\_\_\_ (play) cricket when it started raining.
3. I \_\_\_\_\_ (go) to school every day.
4. He \_\_\_\_\_ (not complete) his homework yet.
5. We \_\_\_\_\_ (wait) here since morning.
6. While he \_\_\_\_\_, (sleep) the phone rang.
7. By the time we reached the station, the train \_\_\_\_\_ (leave).
8. She \_\_\_\_\_ (finish) her homework before going out.
9. By next year, I \_\_\_\_\_ (complete) my studies.
10. He \_\_\_\_\_ (lose) the book, so he cannot return it.

#### 2. Interrogatives (Examples)

- Direct: He said, “Where are you going?”
- Indirect: He asked where I was going.
- Direct: She said, “Do you like coffee?”
- Indirect: She asked if I liked coffee.

#### Practice

1. He said, “What are you doing?”
2. She said, “Where do you live?”
3. He said, “Are you coming?”
4. She said, “Did you finish your work?”
5. He said, “Why are you late?”

## 2. MCQs

1. Look! The baby \_\_\_\_\_.

- a) cries
- b) is crying
- c) cried
- d) has cried

3. He \_\_\_\_\_ in this company for five years.

- a) works
- b) worked
- c) has been working
- d) is working

5. She \_\_\_\_\_ to school every day, but today she is absent.

- a) goes
- b) go
- c) went
- d) going

2. I \_\_\_\_\_ him since last year.

- a) did not see
- b) have not seen
- c) had not seen
- d) am not seeing

4. When I entered the room, they \_\_\_\_\_ dinner.

- a) have
- b) had
- c) were having

## LITERATURE – FOOTPRINTS WITHOUT FEET

Example: Hari Singh (Character Sketch – 100 words)

Hari Singh is a fifteen-year-old boy who works as a thief. He is clever, observant, and experienced in deceiving people. At the beginning, he befriends Anil with the intention of robbing him. However, as he lives with Anil, he is influenced by his kindness and generosity. Hari shows signs of change when he learns to cook, read, and write. Though he steals money, he feels guilty and returns it, showing his inner goodness. This proves that he is not completely dishonest but capable of transformation. Hari Singh represents a young boy who moves from dishonesty towards honesty through trust and guidance.

1. Write a character sketch of Hari Singh from *The Thief's Story* (100 words)

2. Write a character sketch of Anil in about 80 words.

3. Write a character sketch of Ausable from *The Midnight Visitor* (80 words.)

4. Write a character sketch of Max in about 80 words.

5. Write a character sketch of Horace Danby from *A Question of Trust* (50 words.)

6. Write the moral of both lessons (*The Thief's Story* and *The Midnight Visitor*) in about 80 words.

7. Read all the stories from *Footprints Without Feet*. Write word meanings in the textbook for difficult words from each chapter.

8. Complete art work for all poems in your notebook.

## Subject: MATHEMATICS

1 Prove that  $\sqrt{5}$  is irrational.

2 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.

3 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.

4 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.

5 If the zeroes of the polynomial  $x^2 + ax + b$  are in the ratio 3 : 4, then prove that  $12a^2 = 49b$

6 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.

7 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.

8 If  $\alpha$  and  $\beta$  are the zeroes of polynomial  $3x^2 + 6x + k$  such that  $\alpha + \beta + \alpha\beta = -\frac{2}{3}$ , then find the value of k.

9 Find the greatest number which divides 70 and 125, leaving remainders 5 and 8 respectively.

10 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  $2a = b$

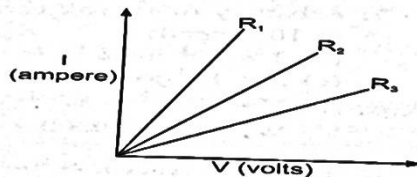
11 Find two consecutive negative integers, sum of whose squares is 481.

12 Solve the following system of equations graphically.  $x - 2y = 3$ ,  $3x - 8y = 7$

- 13 Find the length of the plank that can be used to measure the lengths 4m 20 cm and 5m 4cm exactly in the least time.
- 14 If the roots of the quadratic equation  $\sqrt{3}x^2 - kx + 2\sqrt{3} = 0$  are real and equal, then find the value(s) of  $k$ .
- 15 The sum and product of zeroes of a quadratic polynomial  $p(x)$  are  $\frac{-1}{3}$  and 2 respectively. Find the polynomial  $p(x)$

**Subject: PHYSICS**

1. A plot of V-I graph of Three samples having resistance  $R_1, R_2, R_3$  is given below. Which of the following is true?



- a.  $R_1 = R_2 = R_3$   
 b.  $R_1 > R_2 > R_3$   
 c.  $R_1 < R_2 > R_3$   
 d.  $R_1 > R_2 > R_3$

2. If the current  $I$  through a resistor is increased by 100% (assume that temperature remains unchanged), the increase in power dissipated will be  
 a. 100%    b. 200%    c. 300%    d. 400%
3. An electric appliance consumes 800W of electric power when operated at 220 V. A fuse wire of what rating must be used for it?  
 a. 1A    b. 2A    c. 4A    d. 5A
4. Assertion: The resistivity of conductor increases with the increasing of temperature Reason: Resistivity is the reciprocal of conductivity.
5. Assertion : Silver is not used to make electric wires.
6. Reason: Silver is a bad conductor of electricity.
7. Assertion : Bending a wire does not affect electrical resistance.
8. Reason: Resistance of wire is proportional to resistivity of material
9. (a) What is electrical resistance? (b) In a series electrical circuit comprising a resistor made up of a metallic wire, the ammeter reads 5A. The reading of the ammeter decreases to half when the length of wire doubled. Why?
10. Name and define smallest commercial unit of electrical energy.
11. Two resistance when connected in parallel give resultant value of 2 ohm, when connected in series the value becomes 9 ohm. Calculate the value of each resistance.
12. Why are metals good conductors of electricity whereas glass is bad conductors of electricity? Give reason.

**Subject: CHEMISTRY**

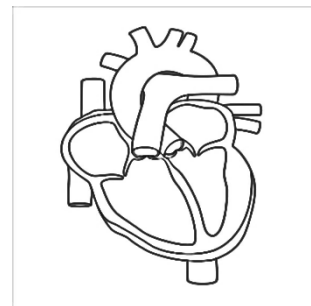
1. Differentiate Oxidation and Reduction. Identify substance oxidized, substance reduced, oxidizing and reducing agents in any 4 reactions.
2. What happens when lead nitrate reacts with potassium iodide? Name the precipitate formed and its colour. In what way double displacement reactions are different from precipitation reactions? Give examples.
3. Translate the following into balanced informative equations:  
 i) Nitrogen and hydrogen gases combine to form ammonia in presence of iron catalyst and the reaction is exothermic.  
 ii) Sulphur dioxide gas reacts with oxygen to form sulphur trioxide gas in presence of vanadium pentoxide, reaction is highly exothermic.  
 iii) Quicklime is added to water to form slaked lime, reaction is exothermic.
4. Give reason why in respiration and photosynthesis equations we write aqueous state for oxygen and carbon dioxide gases.
5. List out 4 points how you can make out whether a chemical reaction has taken place.
6. Explain electrolysis of water with labeled diagram. How can you test for these gases?

Holiday Homework (To be written in Chemistry lab manual):

Six Experiments of Chemistry Lab Manual from the printed portion are to be written. Diagrams to be made in the white pages. Writing should be neat without any strike-offs. Date of experiment can be written later after doing the experiments in the lab. Observation tables can be written in the single-ruled pages itself. Viva-voce need not be written. To be submitted on the reopening day.

## Subject: BIOLOGY

- The enzyme present in saliva is:  
a) Pepsin    b) Trypsin    c) Amylase    d) Lipase
- The oxygenated blood from lungs is carried to heart by:  
a) Pulmonary artery    b) Pulmonary vein    c) Aorta    d) Vena cava
- State one function of bile juice.
- Differentiate between arteries and veins (any 3 points).
- A plant kept in sunlight loses water through leaves.  
a) Name the process responsible for water loss.  
b) How does this process help in water transport?
- Study the diagram of human heart and answer:  
a) Name the chamber that pumps oxygenated blood to the body.  
b) Why is the wall of this chamber thicker than others?  
c) Which part receives deoxygenated blood from all body parts?  
d) What is the function of pulmonary artery?
- Rohan observed a plant kept in sunlight and noted that the leaves appeared healthy and green. He studied a diagram showing the process occurring inside the leaf.  
a) Name the organelle where photosynthesis occurs.  
b) Write the raw materials required for this process.  
c) Why is sunlight essential in this process?  
d) What will happen if the plant is kept in the dark for a long time?



## Subject: SOCIAL SCIENCE

- What do you mean by Sustainable Development? Explain.
- What are main causes of Soil Erosion? Write about the various measures to check soil erosion.
- Describe the steps taken by French Revolution to create a sense of collective belongings.
- Discuss about the process of Formation of Great Britain.
- Why do we use averages? Are there any limitations to their use?
- In what respects is the criterion used by the UNDP for measuring development different from the one used by the World Bank?
- What is Equalitarian Government? Explain with examples any three measures adopted by the Belgium government to accommodate regional and cultural diversities.
- Explain three measures taken by Sri Lankan government by an Act of 1956, led to alienation of Sri Lankan Tamils.
- Note- Holiday Homework:
  - Project – On Consumer Rights/Social Issue /Sustainable Development (Anyone of above topic to be done in Social Science Lab. Manual).

## Subject: हिंदी (द्वितीय भाषा)

- निम्नलिखित प्रश्नों के उत्तर लिखिए-
  - “परिवार के अनुभवी जनों द्वारा दी गई सीख भविष्य निर्माण में सहायक सिद्ध होती है।” आपके द्वारा स्पर्श पाठ्य पुस्तक में पढ़े गए पाठ के माध्यम से भी यह ज्ञात होता है कहानी के पात्रों के माध्यम से कथन को सिद्ध कीजिए।
  - “भारत को मिली स्वतंत्रता में सभी वर्गों की भूमिका थी।” डायरी का एक पन्ना पाठ के आधार पर सिद्ध कीजिए।
  - पाठ्य पुस्तक में संकलित साखियों का भाव संक्षेप में लिखिए। (कबीर की साखी)
- पदबंध पर आधारित प्रश्न –
  - कितना भद्दा और मरियल-सा पिल्ला है। इस वाक्य में विशेषण पदबंध पहचानिए।
  - शैलेन्द्र ने राजकपूर की भावनाओं को शब्द दिए हैं। रेखांकित पदबंध का नाम लिखिए।
  - तकदीर का मारा वह यहाँ आ पहुँचा। इसमें सर्वनाम पदबंध कौन सा है?
  - माँ कल सुबह तक आँगी। वाक्य में क्रिया-विशेषण पदबंध क्या है?
  - जो लड़की नाच रही है, यह सुजाता की बहन है। रेखांकित पदबंध का नाम लिखिए।
- समास पर आधारित प्रश्न –
  - ‘महावीर’ शब्द में कौन सा समास है कारण सहित लिखिए।
  - ‘वन गमन’ का समास विग्रह क्या होगा?
  - दिनचर्या का समास विग्रह कर समास का भेद लिखें।
  - सप्तर्षि में कौन सा समास होगा?
- “बड़े भाई साहब” और “डायरी का एक पन्ना” पाठ से अर्थ सहित मुहावरे लिखिए।

**Subject: తెలుగు (ద్వితీయ భాష )**

I. క్రింది పద్యాలకి ప్రతిపదార్థములు రాయండి.

1. ఎంతయు వృద్ధులై తమకు నీ ..... 2. లేవో గానల గందమూల ఫలముల్.....

II. క్రింది వానికి లేఖలు రాయండి.

1. గుంటూరు జిల్లా తాడికొండ మండలం పొన్నెకల్లు గ్రామంలో ప్రజలు పడుతున్న మంచినీటి సమస్య గురించి జిల్లా అధికారికి ఆ గ్రామ సర్పంచ్ నారాయణ వ్రాయుచున్నట్లు లేఖ.

III. కింది వానికి వ్యాసం రాయండి.

1. జాతీయ సమైక్యత 2. నిరుద్యోగ సమస్య

IV. క్రింది ఇవ్వబడిన విషయాన్ని అనుసరించి ప్రాజెక్టు చేయండి.

1. అస్సాం రాష్ట్రంలో నోబుల్ శాంతి బహుమతి పొందిన నలుగురి వివరాలు సేకరించి శాంతి కొరకు వారు చేసిన కృషిని వివరిస్తూ ప్రాజెక్టు చేయండి.

**Subject: సంస్కృతమ్ (ద్వితీయ భాష)**

1. సంస్కృతే పञ्च 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)