



St. Mary's School, Dwarka
Winter Holiday Homework-2025
Class IX

SUBJECT: ENGLISH

General Instructions:

- 1) The work should be done neatly and in a systematic way.
- 2) The given questions are to be done in your respective subject notebooks.

GRAMMAR AND WRITING (12)

Q1. Complete the tasks below as directed.

($\frac{1}{2} \times 8 = 4$)

(i) Choose the correct option to complete the sentence.

($\frac{1}{2}$)

The report _____ by the time the manager arrives.

- a. will have been prepared
- b. was prepared
- c. is prepared
- d. had prepared

(ii) Read the conversation and complete the narration.

($\frac{1}{2}$)

Meera: Do you think it will rain tomorrow?

Ravi: I doubt it. The sky is clear.

Ans. Meera asked Ravi _____.

Ravi replied _____.

iii) Fill in the blank with the correct option.

($\frac{1}{2}$)

You _____ finish this assignment by tomorrow if you want to submit it on time.

- a. should
- b. could
- c. might
- d. may

(iv) Identify the error in the sentence and suggest the correction.

($\frac{1}{2}$)

The teacher, along with the students, were preparing for the annual function.

v) Fill in the blank with the correct word.

($\frac{1}{2}$)

The new employee proved to be a _____ addition to the team. (valuable/invaluable)

(vi) Select the correct option to fill in the blank.

($\frac{1}{2}$)

We _____ wait until the test results are announced. (express compulsion)

(vii) Read the conversation and convert it into indirect speech.

($\frac{1}{2}$)

Teacher: Have you completed the project on time?

Student: Yes, I submitted it yesterday.

Ans. The teacher asked the student _____.

The student replied _____.

(viii) Choose the correct verb form to complete the sentence.

(1/2)

By the time we reached the station, the train _____.

- a. had already left
- b. has already left
- c. is leaving
- d. will leave

Q2. As the editor of your school magazine, write a bio-sketch of Ruskin Bond in about 100 words, highlighting his contributions as a writer and his influence on Indian literature. (3)

- Full Name: Ruskin Bond
- Born: May 19, 1934, Kasauli, Himachal Pradesh
- Education: Bishop Cotton School, Shimla
- Career: Prolific writer of novels, short stories, essays, and children's books
- Notable Works: *The Room on the Roof*, *Rusty* series, *A Flight of Pigeons*
- Contributions: Known as the pioneer of Indian English literature; beautifully captures life in the hills and rural India
- Awards: Sahitya Akademi Award, Padma Shri, Padma Bhushan
- Legacy: Inspiring generations with his simple yet profound storytelling

Q3. "Perseverance is not a long race, it's many short races one after another. Embrace the struggles, for they are the steps leading to triumph." - Walter Elliot. You are Yelena Sharapova. Write a diary entry describing what you felt watching Maria striving to reach the pinnacle of success, despite the challenges she faced. (5)

LITERATURE (8)

Q4. Answer the following questions in about 40 words: (2x2=4)

- a. Why does the author feel drawn to the calmness of the Baudhnath Stupa after visiting the Pashupatinath Temple? (2)
- b. Why does the poet describe his spirit as being "sealed" in the poem *Slumber did The Spirit Seal*? What does this signify? (2)

Q5. Answer the following question in 100 to 120 words: (4)

The story "**The Adventure of Toto**" portrays the challenges and conflicts that arise when humans try to domesticate wild animals. Discuss how the incidents in the story, highlight the clash between human desire to tame animals and the animals' inherent natural instincts. Use examples from the text to support your response.

SUBJECT :HINDI

सामान्य निर्देशः—

- दिए गए सभी प्रश्नों के उत्तर हिंदी की उत्तर पुस्तिका में लिखिए।
- कार्य स्वच्छ शुद्ध एवं स्पष्ट लेख में कीजिए।
- यथासंभव प्रत्येक प्रश्न का उत्तर कमश लिखिए।

प्रश्न 1 निम्नलिखित प्रश्नों के निर्देशानुसार उत्तर दीजिए -

(1×5=5)

(क) स्वतंत्र एवं सार्थक वर्णों का मेल क्या कहलाता है?

(ख) निम्नलिखित शब्दों में उचित स्थान पर अनुस्वार या अनुनासिक का प्रयोग कर उन्हें मानक रूप में लिखिए -

(i) सस्कृति (ii) साझ

(ग) निम्नलिखित शब्दों में प्रयुक्त उपसर्ग एवं प्रत्यय मूल शब्द से अलग करके लिखिए-

(i) प्रतिदिन (ii) मानवीय

(घ) निम्नलिखित शब्दों में संधि तथा संधिविच्छेद कीजिए :

(i) सु + आगत (ii) सदैव

(ङ) निम्नलिखित वाक्यों में उचित विराम-चिह्न लगा लिखिए-

(i) उफ आज कितनी गर्मी है

(ii) अध्यापिका जी ने कहा सभी बच्चे बैठ जाँ

प्रश्न 2 निम्नलिखित प्रश्नों के उत्तर 25 से 30 शब्दों में दीजिए:-

(2×2=4)

(क) विद्यार्थी अवस्था में महादेव भाई क्या करते थे? महादेव भाई की साहित्यिक गतिविधियों की क्या देन है?

(ख) लेखक ने पहली रात के भोजन को उच्च-मध्यम वर्ग के डिनर में किस उद्देश्य से बदला ? उसने भोजन में क्या-क्या बनवाया?

प्रश्न 3 निम्नलिखित प्रश्नों के उत्तर 25 से 30 शब्दों में दीजिए:-

(2×2=4)

(क) विकास के नाम पर हो रहे नित नए निर्माण से कवि को किन परेशानियों का सामना करना पड़ा?

(ख) 'खुशाबू रचते हैं हाथ' कविता का उद्देश्य स्पष्ट कीजिए।

प्रश्न 4 निम्नलिखित प्रश्नों के उत्तर 25 से 30 शब्दों में दीजिए:-

(2×2=4)

(क) मराठी के वरिष्ठ कवि विदा करंदीकर ने लेखक की लाइब्रेरी देखकर लेखक से क्या कहा था ?

(ख) अमरतला स्थित उज्जयंत महल के बारे में लेखक ने क्या जानकारी दी है?

प्रश्न 5 (क) बिजली की बार-बार कटौती से उत्पन्न स्थिति से परेशान महिलाओं की

बातचीत को 100 शब्दों में संवाद के रूप में लिखिए।

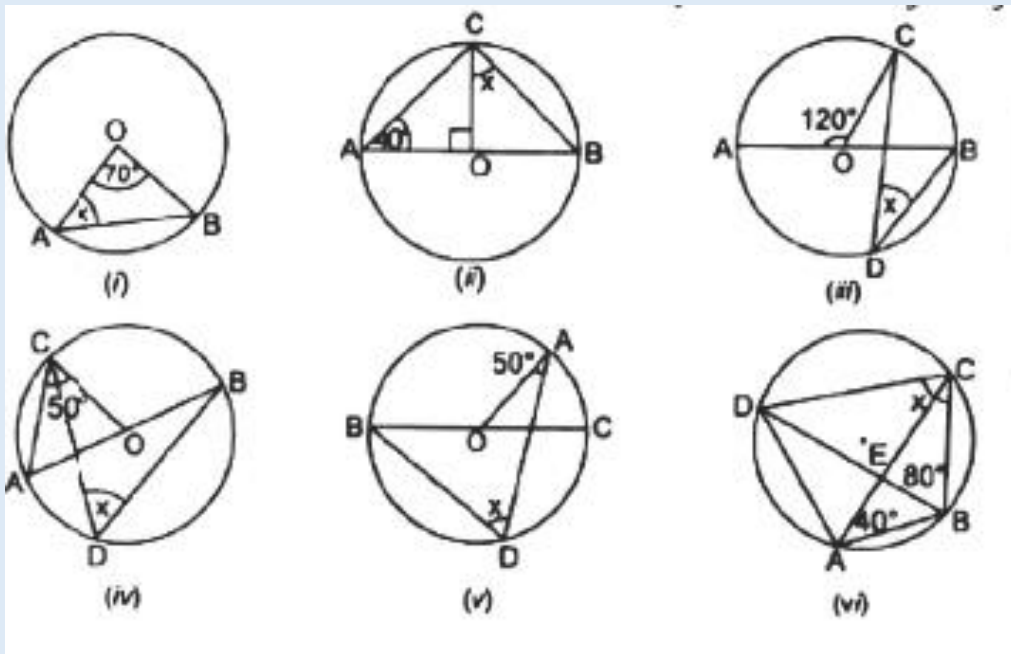
(4×1=4)

(ख) आप भविष्य में दसवीं के बाद क्या करना चाहते हैं। इससे अवगत कराते हुए अपने मामा जी को पत्र लिखिए।

(4×1=4)

SUBJECT: MATHEMATICS

- Q-1 If the radius of a sphere is doubled then what is the ratio of their volumes? (2)
- Q-2 ABCD is a cyclic quadrilateral whose diagonals intersect at a point E. If $\angle DBC = 70^\circ$, $\angle BAC$ is 30° , find $\angle BCD$. Further, if $AB = BC$, find $\angle ECD$. (2)
- Q-3 The slant height and base diameter of a conical tomb are 25 m and 14 m respectively. Find the cost of white-washing its curved surface at the rate of Rs.210 per 100 sq.m. (3)
- Q-4 A diagonal of a rectangle is inclined to one side of the rectangle at 25° . What is the measure of acute angle between the diagonals? (3)
- Q-5 If O be the centre of the circle, find the value of x in each of the following figures. (5)



SUBJECT: SCIENCE

General Instructions:

- (1) The work should be done neatly and in a systematic way.
- (2) The given questions are to be done in the Physics, Chemistry and Biology notebooks.
- (3) Write questions along with the answers.
- (4) Answer the 02 marks questions in 30 to 50 words.
- (5) Answer the 03 marks questions in 50 to 80 words.

PHYSICS

Q1 and Q2 is Assertion - Reasoning based question. This consist of two statements Assertion (A) and Reason (R). Answer the question by selecting the appropriate option given below:

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true and R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

- Q1. **Assertion (A):** The value of acceleration due to gravity does not depend on the mass of the object on which force of gravity acts.
Reason (R): The value of acceleration due to gravity is maximum at the poles and minimum at the equator. 1
- Q2. **Assertion (A):** A piece of cork pressed into water comes back to the surface once released.
Reason(R): When a solid is immersed in a fluid, it experiences a buoyant force due to the fluid. 1
- Q3. a) Differentiate between mass and weight. 1
b) A metal object has a volume of 200 cm^3 and a mass of 1600g. Determine if the metal object will float or sink in water. 1
- Q4. a) If the ratio of the gravitational force on Neptune to that on Earth is 9:8 and the weight of a child on Earth is 792 N, what would be the child's weight on Neptune? 2+1
b) How much work is done by a force of 10 N in moving an object through a distance of 4 m in the direction of the force?
- Q5. An object is thrown vertically upwards with an initial velocity of 100 m/s. Find 3
a) the time taken to reach maximum height.
b) the maximum height reached.
c) velocity after 5 s

CHEMISTRY

Q1 and Q2 is Assertion - Reasoning based question. This consist of two statements Assertion (A) and Reason (R). Answer the question by selecting the appropriate option given below:

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true and R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

- Q1. **Assertion (A):** When 12 g of CaCO_3 is decomposed, 6.72 g of residue is left and 5.28 g of product escapes.
Reason (R): Law of conservation of mass is followed. 1
- Q2. **Assertion (A):** Rutherford's model of the atom proposed that electrons are distributed uniformly throughout the atom.
Reason (R): Rutherford's gold foil experiment showed that atoms have a small, dense nucleus with electrons orbiting around it. 1
- Q3. The valency of an element X is +3. Deduce the chemical formulae of its chloride and oxide? 2
- Q4. A group of chemistry students is tasked with analysing an unknown compound found in a polluted river. They must identify its elements, determine their proportions, and explain the reactions that could form this compound. Using this scenario, evaluate two strengths and two limitations of Dalton's Atomic Theory. 3
- Q5. Suditi was conducting an experiment in her school laboratory to study the chemical reaction between sodium and chlorine to form sodium chloride (table salt). During the experiment, she started with 23 grams of sodium and 35.5 grams of chlorine.
(i) Calculate the mass of sodium chloride formed, according to the law of conservation of mass.
(ii) She observed that the mass of the sodium chloride formed was slightly lesser than expected. Analyse the possible reasons for this discrepancy?
(iii) Describe the formation of sodium chloride through the process of ionic bonding. 3

BIOLOGY

- Q1. Which practice is most suitable for maintaining soil fertility? 1
a) Continuous cropping of the same plant
b) Slash and burn farming
c) Crop rotation
d) Use of pesticides
- Q2. Which term refers to the practice of growing two or more crops simultaneously on the same piece of land? 1
a) Mixed cropping
b) Monocropping
c) Crop rotation
d) Multiple cropping

- Q3. Differentiate between broilers and layers in poultry farming. (any two points) 2
- Q4. Why is it important to provide a balanced diet to poultry birds? Mention two components of a balanced poultry diet. 1+1
- Q5. Ravi is a farmer in a rural area who owns a small piece of land. He rears cows, buffaloes, and goats for milk production. Recently, Ravi noticed that the milk yield of his animals has decreased, and some of his cows show symptoms of illness. A veterinary doctor advised him to ensure proper nutrition and hygiene for his livestock and suggested regular vaccination to prevent diseases.
- a) What role does vaccination play in animal husbandry? 1
- b) Name one measure Ravi took to improve the housing conditions of his animals. 1
- c) Mention two essential components of a balanced diet for dairy animals. 2

SUBJECT: SOCIAL SCIENCE

GEOGRAPHY

- Q1. Differentiate between the West flowing rivers and East flowing river. 2
- Q2. Where is Mawsynram located? Why does Mawsynram receive the highest amount of rainfall? 2
- Q3. Where are Evergreen forests found in India? Name any two regions. Write any two characteristics of these forests. 2
- Q4. Give the reasons for selecting longitude 82°30' as the Standard Meridian of India. 2
- Q5. (I) Features are marked by numbers in the given political map of India, Identify these features with the help of the following information and write their correct names. (½ x4=2)
1. A type of vegetation
 2. A type of vegetation
- (II) On the political map of India, locate and label the following:
1. National Parks : Corbett, Kaziranga
 2. Wildlife Sanctuaries : Sariska, Dachigam

ECONOMICS

- Q1. How does investment in human capital contribute to economic growth? 2
- Q2. What are the differences between the primary, secondary, and tertiary sectors of the economy? 2
- Q3. How can unemployment affect the economy of a country? 2
- Q4. What measures can be taken to turn a large population into an asset rather than a liability? 2
- Q5. How does the concept of 'People as a Resource' differ from traditional views of population? 2

POLITICAL SCIENCE

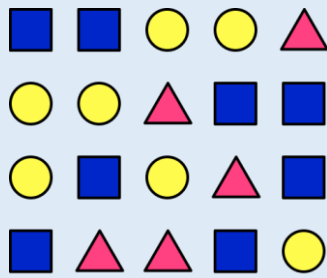
- Q1. When was the Second Backward Classes Commission appointed? Why was it appointed? 1
- Q2. Why do we need a Parliament? 1
- Q3. Differentiate between political and permanent executive. 2
- Q4. How is the President of India elected? What are the powers of the President? 3
- Q5. List the powers of the Prime Minister. 3

HISTORY

- Q1. How did the French Revolution influence the political landscape of Europe? Discuss its impact on both France and other European countries. 2
- Q2. Examine the role of women in the nationalist movements of the 19th century. How did their participation shape the outcomes of these movements? 2
- Q3. Analyze the economic and social changes brought about by the Industrial Revolution. How did these changes affect different classes of society? 2
- Q4. Discuss the significance of the Treaty of Versailles in shaping the post-World War I world order. What were its long-term consequences for Europe and the world? 2
- Q5. Evaluate the causes and effects of the Russian Revolution of 1917. How did this revolution alter the course of Russian history and influence global politics? 2

SUBJECT: ARTIFICIAL INTELLIGENCE

Q1. a) Draw a tally chart to show the frequency of these shapes. 2



b) Consider the Python List given below. 1x3=3

```
list2=['Sunday', 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday']
```

Write the Python program to perform the following in-built methods in Python List.

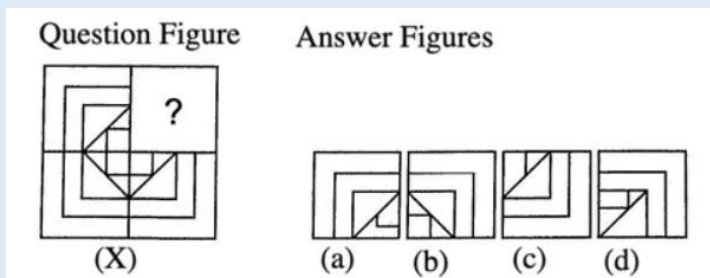
- i) sort() ii) reverse() iii) copy()

c) In an examination, the grades achieved by 40 students of a class are given below

B1, C1, C2, E, A, C1, B1, B1, D, D, D, D, B1, C1, C1, C1, A, C1, B2, E, A, D, C2, B2, E, C2, B1, E, C2, D, A, B2, C2, E, D, D, A, A, C1, E

- (a) Arrange the grades using tally marks 1
- (b) How many students get grade A? ½
- (c) How many students get grade E? ½
- (d) The grade where maximum students are present ½
- (e) The grades where minimum students are present ½

d) Identify the missing part of the given figure and select it from given answer figures. 1



e) What is the output of the following program code? 2

```
i) list3=['C','Java','C++','Visual Basic']
list3.clear()
print(list3)

ii) list1=['English','Hindi','Math','Science']
del list1[-3]
print(list1)
```

Answer the following questions.

- Q2. Define probability. Write the formula to express probability. 2
- Q3. Explain the different ways to express probability. 2
- Q4. Explain the relationship between Mathematics and Artificial Intelligence, providing justification for their interconnection. 2
- Q5. a) What is Generative AI? 2
- b) Give full forms of the following- i) GANs ii) VAEs iii) RNNs 3
- c) List any three potential negative impacts on society. 3

SUBJECT: HINDUSTANI MUSIC VOCAL(034)

Answer the following questions: -

- Q.1 Write the definition of Music with a help of a diagram. 5
- Q.2 How many Saptaks are there? Explain Mandra Saptak, Madhya Saptak and Taar Saptak. 5
- Q.3 Draw the diagram of Saptak and show the swaras in it. 5
- Q.4 Explain the following: 5
- a) Aaroha
 - b) Avroha
 - c) Dwani
 - d) Naad
 - e) Swaras
- Q.5 How many types of swaras are there? Explain Shudh swara ,Komal swara and Tiwra swara. 5

SUBJECT:HOME SCIENCE

The given questions are to be done in your home science notebook or practical file.

- Q1. Explain the process of germination and fermentation, highlighting their methods, observation and effect on food. 5
- Q2. Create a slogan or poster for proper disposal of domestic waste. 5
- Q3. What are the methods, objectives, and observations involved, in identifying fabric types using physical characteristics and burning tests? 5
- Q4. Write down the steps for giving first aid for burns, cuts, bites, fractures, and electric shocks. 5
- Q5. Make a table enlisting the advantages and disadvantages of frying, boiling and microwaving on a A4 size sheet. 5

SUBJECT:PAINTING

- Q1. What is painting technique? Explain about any two painting techniques. 2
- Q2. What are the basic elements of a painting? 2
- Q3. Describe the significance of the "Madhubani" painting style. 2
- Q4. What role does shading play in painting? 2
- Q5. Explain what is composition? Make a flower composition. 2