

# **PRAYAG PUBLIC SCHOOL**

## **WINTER VACATION HOME-WORK(2025 -26)**

**CLASS – 8<sup>th</sup>**

### **SUBJECT – SCIENCE**

- (1) Differentiate between asexual and sexual reproduction by giving one example of each.
- (2) An object is placed 20 cm in front of a plane mirror. What is the distance between the object and its image?
- (3) Why does the image formed by a plane mirror appear laterally inverted but not inverted vertically?
- (4) Why is a balanced diet especially important during adolescence? Give two reasons.
- (5) If the time period of a sound wave is 0.002 s, calculate its frequency.
- (6) Why can sound travel through solids but not through vacuum?
- (7) What is electroplating? Mention one practical use of electroplating.
- (8) Draw a well labelled diagram of the following given points.  
(a) Human eye      (b) Human ear      (c) life cycle of frog
- (9) Underline the the hard words / difficult words of the chapter -11(Chemical effects of Electric current) and write their proper meaning in both in Hindi & English with the help of dictionary.
- (10) Underline the the hard words / difficult words of the chapter -12(Some Natural phenomena) and write their proper meaning in both in Hindi & English with the help of dictionary.

### **SUBJECT – COMPUTER**

- Q1. Write the syntax of creating table, show database, renaming a column in SQL.
- Q2. Solve the worksheet-4 in Book.
- Q3. Create a table of bakery shop with 5 fields and fill their records in SQL.
- Q4. Learn the extra exercise of Chapter- 7 & 10.
- Q5. Learn the answer of the questions 1 to3 of Chapter – 9 & 10.

### **SUBJECT – MATHEMATICS**

- Q1. Write and learn the square numbers from 2 to 40.
- Q2. Write and learn the cube numbers from 2 to 25.
- Q3. Learn the given identities and solve 3 questions from each algebraic identity.
  - $(a + b)^2 = a^2 + 2ab + b^2$  ,  $(a - b)^2 = a^2 - 2ab + b^2$
  - $(a + b)(a - b) = a^2 - b^2$  ,  $(x + a)(x + b) = x^2 + (a + b)x + ab$
  - $(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca)$  .

- Q4. Prepare chart of formulas of mensuration with labelled diagram  
( Area, Perimeter, T.S.A , C.S.A & Volume)
- Q5. Solve the Assignment - 02 and Revision Assignment of **Chapter - Linear equations** from Work Book.
- Q6. Solve the Assignment - 03 of **Chapter – Mensuration** from Work Book.

## **SUBJECT – S.ST.**

Q1. Learn & Write the given terms ( 2 times) From Book.

**(Sanitation, Universal Access, Basic Needs , Human Resources, Immigration, Population Composition, Picket, Sati Pratha)**

Q2. Read Chapter “Women Caste and Reform” Mark all hard words and write their meaning in book and Do Question no. 1 and Question no. -2 in Work Book.

Q3. Read Chapter “Human Resources” And Write the current population density of India, China and Japan. Do Question no. 1 and Question no-2 in Work Book.

Q4. Read Chapter “Public Facility “frame 5 - Questions with answers by youself and Do Question -1 and 2 in Work Book.

Q5. **Map Work:** On the political map of World.

Mark 5 - most and least populous countries of the world.

## **SUBJECT – HINDI**

- सूरदास के पद पाठ को पढ़िए और कठिन शब्द छांटकर लिखिए।
- पाठ 9 और पाठ 10 के प्रश्न उत्तर यादकरें
- शीत ऋतु से संबंधित 10 मुहावरे लिखे साथ ही उनके अर्थ स्पष्ट करते हुए वाक्य प्रयोग भीकरें।
- अपने मित्र को पत्र लिखिए जिसमें सर्दी की छुट्टियों का वर्णन हो
- अपनी पाठ्यपुस्तक से प्रतिदिन 10 विलोम 10 पर्यायवाची एवं 10 वाक्यांश के लिए एक शब्द याद करें।

## **SUBJECT – ENGLISH**

Q1. Pick 5 - Sentences from the Chapter "The Summit Within" and underline the verbs. Identify whether they show physical or mental action.

Q2. Write the central idea of the chapter “The Jody's fawn ” in 5-6 points.

Q3. Write meanings and frame sentences of 8 new vocabulary words.

Q4. **Diary Entry :** Imagine You are Jody after taking the fawn home express your feelings.

Q5. Pick 5 - Nouns from the poem the School boy and Convert them into adjectives.

Q6. Read chapter "A Visit to Cambridge" underline all the difficult words, find their meanings and frame sentences of any 10 words .

Q7. Write 5 character traits of Stephen Hawking.

Q8. Writing an application to the Mayor of the municipality of your town asking him to provide street lights in your locality..

Q9. Learn idioms (1 to 10) given in your book, and try to frame your own sentences using them.

Q10. Learn all three forms of verbs which you have written in your diary.