



# DAV PUBLIC SCHOOL

**DHANGAWAN, JEHANABAD (BIHAR) - 804408**

**SUMMER VACATION ASSIGNMENT(2025)**

**CLASS – X**

**Sub: - ENGLISH**

1. Write an application to your principal demanding one week's leave to go on a trip to Delhi and Agra along with your parents.
2. Write a paragraph in about 100 words on 'The Importance of Reading Habit'.
3. Write a short life sketch of Robert Frost on a chart paper.
4. Write five rules for the use of definite article 'the' with examples.
5. Write the structures of all the twelve tense forms with two examples of each on a chart paper.
6. Comment upon the character of Anil with reference to 'The Thief's Story' in 100 words.
7. Write the central idea of the poem 'Dust of Snow'.
8. Write the theme of the poem 'Fire and Ice'.
1. 9. Define Simile and Metaphor giving two examples of each from your textbook.
9. Write 10 habits of a good student.

**Sub: - HINDI**

निम्नलिखित प्रश्नों के उत्तर सुंदर अक्षरों में लिखिए-----

1. राम-लक्ष्मण एवं परशुराम संवाद पाठके आधार पर राम-लक्ष्मण एवं परशुराम की चरित्रात्मक विशेषताओं को लिखिए।
2. सूरदासरचित पदों का काव्य सौंदर्य लिखिए अर्थात् सूरदास के पदों की भाषा, शब्दावली, छंद, अलंकार, रस, शैली और काव्यगत विशेषताएं लिखिए।
3. उपवाक्य अथवा आश्रित उपवाक्य के सभी भेदों के नाम लिखिए और एक-एक उदाहरण दीजिए।
4. रचना के आधार पर वाक्य के सभी भेदों को सोदाहरण लिखिए।
5. प्रधान उपवाक्य, योजक शब्द और आश्रित उपवाक्य रेखांकित करते हुए एक वाक्य लिखिए।
6. निम्नलिखित काव्य पंक्तियों का के भाव स्पष्ट कीजिए ---  
क—प्रीतनदी में पांव न बोरियो, दृष्टि न रूप परागी।  
ख—सुनत जोगलागत है ऐसो, ज्यों करूँ ककरी।
7. तुलसीदास की जीवनी लिखिए और उनकी चर्चित कृतियों का उल्लेख कीजिए।

8. निम्नलिखित सामासिक पदों अथवा शब्दों के अर्थ स्पष्ट कीजिए ---  
रघुपति, भृगुसुत, कौशिक, गाधिसु, भृगुकुलकेतु और त्रिपुरारि।
9. निम्नलिखित में से किसी एक विषय पर निबंध लिखिए -  
देशभक्ति, पहलगाम घटना के बाद भारत एवं पाकिस्तान में संबंध, काशपरीक्षा न होती।
10. किसी कविता की दस पंक्तियां लिखिए अथवा किसी कविता की संप्रग व्याख्या कीजिए।

**Sub: - SCIENCE**

**PHYSICS**

1. Draw ray diagrams showing the image formation by a convex mirror when object is placed  
(a) At infinity  
(b) At finite distance from the mirror.
2. Between which two points of a concave mirror should an object be placed to obtain a magnification of -3?
3. A ray of light is incident on a concave mirror along its principal axis. What will be the angle of reflection?
4. Rays from Sun converge at a point 15 cm in front of a concave mirror. Where should an object be placed so that size of its image is equal to the size of the object?
5. No matter how far you stand from a mirror, your image appears erect. The mirror is likely to be  
(a) Plane  
(b) Concave  
(c) Convex  
(d) Either plane or convex.
6. Size of image of an object is formed by a mirror having a focal length of 20 cm, is observed to be reduced to 1/3rd of its size and is formed behind the mirror. At what distance the object has been placed from the mirror? What is the nature of image and the mirror?
7. Refractive index of diamond with respect to glass is 1.6 and absolute refractive index of glass is 1.5 Find the absolute refractive index of diamond.

8. The refractive index of diamond is 2.42. What is the meaning of this statement?

## **CHEMISTRY**

- Which of the following are physical or chemical changes?
  - Evaporation of petrol
  - Burning of liquefied petroleum gas
  - Heating of an iron rod to red hot
  - Curdling of milk
  - Sublimation of solid ammonium chloride
- How do we come to know that a chemical reaction has taken place?
- Why should a magnesium ribbon be cleaned before burning in air?
- Why is the amount of gas collected in one of the test tubes double of the amount collected in the other in electrolysis of water experiment? Name this gas.
- A substance X, which is an oxide of a group 2 element is used intensively in the cement industry. This element is present in bones also. On treatment with water it forms a solution which turns red litmus blue. Identify X and also write the chemical reactions involved.
- 2g of silver chloride is taken in a china dish and the china dish is placed in sunlight for some time. What will be your observation in this case? Write the chemical reaction involved in the form of a balanced chemical equation? Identify the type of chemical reaction.

## **BIOLOGY**

- Describe the process of nutrition in human beings. Explain the role of digestive enzymes in the digestion of food.
- Compare autotrophic and heterotrophic modes of nutrition. Explain the process of photosynthesis in plants with the help of a labeled diagram.
- Describe the process of respiration in humans. Differentiate between aerobic and anaerobic respiration with equations and examples.
- Explain how the structure of the small intestine is adapted for the absorption of digested food. How is the absorbed food utilized in the body?
- What is the role of mitochondria in respiration? Explain the process of breakdown of glucose in three different pathways.

## **Sub: - MATHS**

- Prove that  $\sqrt{2}$  is irrational.
- Given that the LCM(306, 657) = 22338, find the HCF.
- Find the zeroes of the quadratic polynomial  $p(x) = x^2 + 3x + 2$  and verify the relation between the zeroes and coefficients.
- If one zero is the reciprocal of the other of the polynomial  $2x^2 + 5x + k$ , find the value of  $k$ .
- Explain why  $12 \times 11 \times 10 + 10$  is a composite number.
- If one root of the quadratic polynomial  $2t^2 - 3t - k$  is 3, find the other roots. Find the value of  $k$ .
- Find a quadratic polynomial whose zeroes are  $\frac{1}{4}$  and  $-\frac{3}{2}$ .
- Prove that  $5 + 3\sqrt{7}$  is irrational.
- Find the value of  $x$  and  $y$ .
$$217x + 131y = 913$$
$$131x + 217y = 827.$$
- If  $2x + 3y = 13$  and  $3x - 4y = 21$ , find the value of  $m$  when  $y = mx + 3$ .

## **Sub: - SOC. SCIENCE**

### **History+ civics**

- Explain the role of Napoleon in spreading nationalism in Europe. What changes did he bring in the territories he conquered?
- What were the main causes and consequences of the Revolutions of 1830 and 1848 in Europe?
- Describe the process of unification of Italy. Mention the role of important leaders in this process.
1. Explain the different forms of power sharing in modern democracies with examples.  
2. Why is power sharing desirable in a democracy? Explain with reasons.

### **Geography\_**

- What are the anthropogenic factors of land degradation?
- Classify development on the basis of status and features.
- Do you agree that sustainability of development is a new way of knowledge? Justify your answer.

### **Economics**

- What are the different factors that people consider while comparing development of different countries or states?
- Explain the Human Development Index. What are its components and who publishes it?

**Sub: - SANSKRIT**

\* प्रश्नानाम् उत्तराणि पूर्णवाक्येन लिखत:-

- (1) शिष्यः विद्यायाः अर्जनं कथं करोति?
- (2) वाङ्मयं तपः किम् उच्यते?
- (3) धियः गुणाः के के सन्ति?
- (4) बोधिसत्त्वः शैशवात् एव कीदृशः आसीत्?
- (5) नेत्रहीनयाचकस्य रूपं धृत्वा शक्रः बोधिसत्त्वं किम् अवदत्?
- (6) सकलं ब्रह्माण्डं किम् ज्ञात्वा व्याकुलं जातम्?
- (7) प्रदत्त समासस्य विग्रहं कृत्वा लिखत:-
  - (i) विद्यासमम्
  - (ii) शीतलसलिलं
  - (iii) सर्वदा
  - (iv) विनयशीलः
  - (v) शास्त्रपारङ्गतः।
- (8) प्रदत्त पदानाम् सन्धिविच्छेदं कृत्वा लिखत:-
  - (i) चक्षुर्दानम्
  - (ii) दास्यामीति
  - (iii) योऽन्यथा
  - (iv) वदनाम्बुजे
  - (v) वृद्धिमायाति।
- (9) राजन् शब्द रूपं लिखत।
- (10) वर्षाऋतुः इति विषयम् अधिकृत्य संस्कृते पञ्च वाक्यानि लिखत।

**Sub: - I.T.**

1. Write any two advantages & disadvantages of verbal communication.
2. What are 7C's of effective communication? Explain
3. Write the elements of communication in sequence, illustrates through a diagram.
4. What are the factors or barriers influencing in communication? Write and define .
5. Define the proximity of position & it's different zones.
6. Write a short notes on
  - a) Communication
  - b) Self Management
7. Solve the Objective and Unsolved Questions of Unit 1. (Communication Skill)