



DAV PUBLIC SCHOOL

DHANGAWAN, JEHANABAD (BIHAR) – 804408

SUMMER VACATION ASSIGNMENT (2026)

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.
4. Write five rules for the use of definite article 'the' with examples.
5. Write the structures of all the twelve tense forms with one example of each.
6. Comment upon the character of Lencho with reference to the story 'The Letter to God' in 100 words.
7. Write the central idea of the poem 'Dust of Snow'.
8. Write the theme of the poem 'Fire and Ice'.
9. Was the doctor's attitude correct towards the dog Tricki? How?
10. Write 10 habits of a good student.

Sub: - HINDI

1. 'नेताजी का चश्मा' पाठ के माध्यम से लेखक ने समाज की किस मानसिकता पर व्यंग्य किया है?
2. कैप्टन की देशभक्ति का वर्णन अपने शब्दों में कीजिए।
3. बालगोबिन भगत का व्यक्तित्व अन्य ग्रामीणों से किस प्रकार भिन्न था?
4. बालगोबिन भगत के जीवन से हमें कौन-कौन से जीवन-मूल्य सीखने को मिलते हैं?
5. सूरदास के पदों में कृष्ण के बाल रूप का चित्रण कैसे किया गया है?
6. सूरदास की भाषा एवं काव्य-शैली की विशेषताएँ लिखिए।
7. लक्ष्मण और परशुराम के संवाद से लक्ष्मण के स्वभाव की कौन-कौन सी विशेषताएँ प्रकट होती हैं?
8. लक्ष्मण द्वारा परशुराम को चुनौती देने के क्या कारण थे? अपने शब्दों में पाठ के आधार पर लिखिए।
9. पद-परिचय क्या है? किसी एक वाक्य के शब्दों का पद-परिचय कीजिए।
10. रचना के आधार पर वाक्य के भेद उदाहरण सहित समझाइए।

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 reduce 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

1. Which of the following are physical or chemical changes?
(a) Evaporation of petrol
(b) Burning of liquefied petroleum gas
(c) Heating of an iron rod to red hot
(d) Curdling of milk
(e) 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 china dish is placed in sunlight for sometime. What will be your observation in this case? Write the chemical reaction involved in the form of balanced chemical equation? Identify the type of chemical reaction.

BIOLOGY

- Describe the process of photosynthesis in detail. Draw a labelled diagram of chloroplast and explain the role of thylakoid.
- Explain the mechanism of breathing in human beings. How is exchange of gases carried out at the alveoli?
- What is double circulation? Describe the flow of blood through the human heart. Why is double circulation necessary in human beings?
- Describe the process of digestion of food in the human alimentary canal. Name the enzymes involved.
- Explain the mechanism of ascent of sap in plants. What are the various forces involved in it?
- Describe the structure of nephron with labelled diagram. Explain the steps involved in urine formation.
- Differentiate between aerobic and anaerobic respiration. Write the chemical equations. Explain how respiration takes place in plants.

Sub: - MATHS

- Given that $HCF(306, 657) = 9$, find $LCM(306, 657)$.
- Prove that $3 + 2\sqrt{5}$ is irrational.
- Check whether 6^n can end with the digit 0 for any natural number n .

- Find the value of "p" from the polynomial $x^2 + 3x + p$, if one of the zeroes of the polynomial is 2.
- Compute the zeroes of the polynomial $4x^2 - 4x - 8$. Also, establish a relationship between the zeroes and coefficients.
- Find the quadratic polynomial if its zeroes are 0, $\sqrt{5}$.
- α and β are zeroes of the quadratic polynomial $x^2 - 6x + y$. Find the value of 'y' if $3\alpha + 2\beta = 20$.
- Find a quadratic polynomial whose zeroes are reciprocals of the zeroes of the polynomial $f(x) = ax^2 + bx + c$, $a \neq 0$, $c \neq 0$.
- Prove that $\sqrt{2}$ is an irrational.
- If the HCF of 65 and 117 is expressible in the form $65m - 117$, then the value of m .

Sub: - SOC. SCIENCE

History

- Examine the various stages of Italian Unification.
- Justify that nationalism developed through culture in Europe.
- "Otto von Bismarck was the architect of German Unification." Examine.
- Explain the role of Giuseppe Mazzini in the unification of Italy.
- Describe the role of liberal nationalism in Europe during the 19th century.

Geography

- What is resource planning? Explain its importance in India.
- Differentiate between renewable and non-renewable resources with examples.
- Explain the problems caused by land degradation and suggest measures to conserve land resources.
- Describe the steps involved in resource planning.
- What is sustainable development? Why is it important for future generations?

Civics

1. What are the basic elements of the Belgium model of power sharing?
What were the majoritarian measures taken in Sri Lanka to establish Sinhala supremacy?
2. Explain the ethnic composition of Belgium.
3. How did Belgium successfully accommodate different social groups?
4. Why is power sharing desirable in a democracy?

Economics

1. What is development? Explain with suitable examples.
2. Why do different people have different developmental goals? Explain.
3. What is the Human Development Index (HDI)? Mention its main indicators.
4. Differentiate between economic development and sustainable development.
5. Why is average income used while comparing different countries? What are its limitations?

Sub: - I.T.

1. What is communication skill?
2. Explain the different elements of communication.
3. Write the different parts of speech.
4. What is role of feedback in communication?
5. Explain the 7C's of effective communication.
6. Briefly explain self management.
7. How can we manage our stress?
8. What is self awareness?
9. Explain the different techniques for self motivation.
10. Write at least your 5 strength and weaknesses.

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 ब्रह्मांडं किम् ज्ञात्वा व्याकुलं जातम्?
- (7) प्रदत्त समासस्य विग्रह 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।