



Session 2019-2020

Shri Shankaracharya Vidyalaya, Hudco, Bhilai

VACATION HOME WORK

CLASS -X

ENGLISH

1. These days more and more children prefer processed and fast food over natural food. This is leading to obesity and other diseases. Write a letter in 120-150 words to the editor of the local daily drawing comparisons between the two. You're Rohit/Rashmi.
2. Write a story in about 250-300 words based on the following hints.
3. Two friends planned holiday.....long journey.....baggage stolen in train.....no money.
4. Write a paragraph on Nelson Mandela's description of his inauguration as South Africa's first black President and his thought on freedom.
5. In today's world letter writing has lost its charm. People and youth in particular rely on mobile and computers to communicate. Write an article in 150-200 words on this present trend.
6. Vocabulary journal -
Make a vocabulary Journal and write down at least 200 words with meaning and their usage in sentence.

हिन्दी

1. संयम-शब्द का अर्थ, क्या आज के छात्रों को इसका पालन करना आवश्यक है? उन्हें इससे क्या लाभ हो सकता है? इसका पालन किस प्रकार करना चाहिए? विस्तार से लिखिए।
2. किसी भी विषय पर आधारित अपनी प्रिय चार कविताएँ लिखिए। किसी एक कविता को प्रिय मानने का कारण लिखिए।
3. विष्णु के दस अवतारों के नाम सचित्र लिखिए।
4. 11 मई से 30 मई तक के किसी समाचार पत्र के मुख्य समाचार काटकर चिपकाइए। इन समाचारों को पढ़ने पर आपकी क्या प्रतिक्रिया होती थी?
5. हिंदी की वर्णमाला लिखिए। हिंदी की 41 से 70 तक संख्याएँ शब्दों में लिखिए।
उदाहरण- 41 इकतालीस, 42 बयालीस आदि।

संस्कृतम्

1. शब्द रूपाणि लिखत ।
अकारान्त पुल्लिङ्ग – राम, देव, फल
आकारान्त स्त्रीलिङ्ग – छात्रा, लता
2. सन्धिकार्यम्
व्यंजन सन्धि: – तुकागम्, मोऽनुस्वार, तृतीयवर्ण परिवर्तनम्, पञ्चम वर्ण परिवर्तनम् ।
विसर्ग सन्धि: – विसर्गस्य लोपः, उत्त्व, रत्व, सत्व, शत्व, षत्व सन्धिः
युक्त पञ्चपदानि सन्धिविग्रहं कृत्वा लिखत ।
3. घातु रूपाणि लट् लकारे लिखत ।
परस्मैपद – पठ्, भू, अस्, कृ, दृश्, गम् ।
आत्मनेपद – सेव, लम् ।
4. (अ) पञ्च पत्राणि लिखत ।
(ब) पञ्च चित्रवर्णनम् लिखत ।
5. निम्न अनुच्छेदम् लिखत ।
व्यायामः, स्वच्छता, ग्राम्यजीवनम्, वर्षाकालः, स्वतंत्रता दिवसः ।
6. शतम् पर्यन्तं संख्यावाचक पदानि लिखत ।
शब्द रूपाणि लिखत – एक, द्वि, त्रि, चतुर, पञ्च ।

MATHEMATICS

- Collect the information related to contribution in the field of mathematics by Indian Mathematician. Any three mathematician .Represent the information on chart paper along with the photograph of mathematician.
- Collect the information related to seats won by different political parties in 2019 Election and represent the data in the form of pie chart.
- Write the algebraic identities studied in class IX.
- Solve 50 questions of NTSE (MAT) given in NTSE Question Bank.
- Make a flow chart to elaborate and explain Euclids Division Algorithm.
- Write Menstruation Formulae studied in class IX, solve 2 questions based on each formula
- List all possible outcomes when two dice are thrown simultaneously, from this find:
 - i) Probability that both dice have prime number on the top
 - ii) Probability that sum of the two numbers appearing on the top is
 - a) 8
 - b) 13
 - c) less than or equal to 12
 - b) More than 15
 - e) An even number

- Solve the following
 - 1) Write 15 irrational numbers between 6 and 7
 - 2) Write 15 rational numbers of your choice, without actual division state the type of each decimal expansion.
 - 3) Show that $3 - \sqrt{5}$ and $(\sqrt{3} + \sqrt{5})$ are irrational numbers.
 - 4) Express 5.4178 in the form $\frac{p}{q}$
 - 5) Write whether $\frac{(2\sqrt{45} + 3\sqrt{20})}{2\sqrt{5}}$ on simplification gives R or IR ?
- If sum and product of zeroes of quadratic polynomial are respectively 8 and 12, then find their zeroes.
- If 2 is a zero of polynomial $ax^2 - 3(a - 1)x - 1$, then find the value of a.
- Explain the Division Algorithm for Polynomials with example.
- Write the relationship between the zeroes and coefficient of a cubic polynomial with example.
- Define the terms polynomial, zero of the polynomial, degree of polynomial. Mention the types of polynomial on the basis of number of terms and on the basis of degree. Give the example of each type
- Find sum of $(\sqrt{2} + \sqrt{3})$ with the help of number line
(Hint : Construct $\sqrt{2}$ and $\sqrt{3}$ by square root spiral on number line. With $\sqrt{3}$ distance in compass and centre at $\sqrt{2}$ on number line draw a line intersecting the number line at a point which is $(\sqrt{2} + \sqrt{3})$ on number line.

PHYSICS

- Complete the Lab Manual

CHEMISTRY

- Q.1 Write the all experiment in your Lab manual.
- Q.2 Project – Any one
- a. Chemical changes & Equation, Chemical balance
 - b. Periodic table & listing metal, non-metal & some properties
 - c. Acid & Base
 - d. Salt
 - e. Corrosion
 - f. Type of chemical reaction
 - g. Extraction of copper.
- Q.3 All the students will prepare periodic table in A-4 size paper & write the name, symbol, Atomic number & Valances of hydrogen to zinc elements.

BIOLOGY

Q.1 Draw a diagram of human alimentary canal and label on it.

- a) Buccal cavity b) Gall bladder c) liver d) Pancreas e) Small intestine f) Anus

Q.2 Draw a diagram of human heart and label the following on it.

- a) Aorta b) Pulmonary artery c) Pulmonary vein d) Left Ventricle
e) Right ventricle f) Superior vena cava g) Inferior vena cava

Q.3 Draw a neat and well labelled diagram of human respiratory system.

Q.4 Draw a diagram of human excretory system and label on it.

- a) Aorta b) vena cava c) urinary bladder d) urethra

Q.5 Draw a well labelled diagram of human brain?

Q.6 Draw diagram of reflex arc.

Q.7 Complete your Lab Manual.

SOCIAL SCIENCE

1. Prepare a project on any one of the following topics
a) Consumer Awareness b) Social Issues c) Sustainable Development
 2. Collect information on how the industries are polluting our water resources.
 3. From your every day experiences, write a short proposal on how you can conserve water.
 4. Write a brief note about 'Project Tiger'
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