



DAV PUBLIC SCHOOL, SASARAM
DURGA PUJA HOLIDAY HOMEWORK & PROJECT WORK

Class – IX (Ninth)

1. विषय: – संस्कृतम्

गृह कार्य एवं परियोजना कार्य

1. पञ्चतन्त्रस्य कथां चित्रसहितं चार्ट-पत्रे लिखत। मनुस्मृतितः द्वे श्लोके लिखत।
2. कृत्रिमबुद्धेः (Artificial Intelligence) विषये संस्कृते दश वाक्यानि चित्रसहितं लिखत।

2. विषय – हिंदी

गृह कार्य (H.A.)

1. सच्चे मित्रों की क्या पहचान होती है? क्या हीरा -मोती सच्चे मित्र हैं?
2. परशुराम के चरित्र की प्रमुख विशेषताएं पाठ के आधार पर लिखिए।

परियोजना कार्य (P.W.)

3. संत रैदास के जीवन -परिचय को लिखिए। (सचित्र चार्ट पेपर पर)

3. Subject – English

Question 1.

If the eight runners in Nine Gold Medals had ignored their fallen teammate and sprinted ahead to win, would the winner still be a true champion in Deepa Malik's eyes? Justify your answer in 3-4 sentences.

Question 2.

Design a motto (tagline) and write a 2-sentence opening speech for an Inclusive Sports Meet that combines the central message of both Nine Gold Medals and The World of Limitless Possibilities.

4. Subject – Social Science

Q1. Why did some Rajput rulers decide to negotiate alliances with the Mughal power?

Q2. What is the difference between the Government and the governance?

Q3. Show major ocean currents on the physical map of the world (with reference to figure 1.9 of the chapter 1. Oceans and life).

5. Subject – Mathematics

Instructions: Answer all questions neatly. Show the necessary steps wherever required.

A. Arithmetic Progression (AP)

1. Find the 20th term of the arithmetic progression: 7, 11, 15, 19, ...
2. The 5th term of an AP is 18 and its 12th term is 46. Find the first term and the common difference.

B. Geometric Progression (GP)

3. Find the 8th term of the geometric progression: 3, 6, 12, 24, ...
4. The first term of a GP is 5 and the common ratio is 2. Find the sum of its first 6 terms.

C. Propositions and Their Converses

5. Write the converse of the proposition: “If a number is divisible by 4, then it is even.” State whether the converse is true or false, giving a reason.
6. Write the converse of the proposition: “If a figure is a square, then it is a rectangle.” Is the converse true or false? Justify your answer.
7. Consider the proposition: “If two angles are vertically opposite, then they are equal.” Write its converse and determine whether the converse is true or false.

6. Subject – Science

Physics

1. Four men lift a 250 kg box to a height of 1 m and hold it without raising or lowering it.
 - (a) How much work is done by the men in lifting the box?
 - (b) How much work do they do in just holding it?

2. Is it possible that an object is in the state of accelerated motion due to external force acting on it, but no work is being done by the force. Explain it with an example.

Chemistry

3. Solve this riddle: I am an atom with a mass number of 23 and 11 protons. I am a soft metal and react vigorously with water. Who am I and how many neutrons do I have?

4. Using resources available at your home, how will you establish that law of conservation of mass is followed in case of physical change. Use proper data to explain the given case.

Biology

5. A gardener grows a new rose plant using a stem cutting. Identify the method of reproduction and state two advantages of this method.

6. An organism produces a small outgrowth on its body, which later develops into a new individual. Identify the method of reproduction and give one example.

Note: Complete all the assigned homework and project work neatly and submit it after the Durga Puja holidays.