

Assignment (2023-24)

Class : X

ENGLISH

1. Click pictures of 10 different kinds of butterflies and write down their specifications like name, biological name, life span, food source and special features (if any).
2. Make a resource file including 15 - 20 articles of your interest from newspaper in a scrap book.

HINDI

राम-लक्ष्मण-परशुराम संवाद पाठ के चौपाई -2 एवं चौपाई-3 के आधार पर लक्ष्मण एवं परशुराम के बीच हुए संवाद को हिंदी में लिखें।

ए-4 साइज पेपर में।

SANSKRIT

दुर्गापूजा अवकाशकार्यम्

कक्षा- दशम

घड़ी बनाकर दिये गये निम्नलिखित समय को दर्शाते हुए संस्कृत में समय लिखकर एक वाल हैंगिंग बनाएँ।

8:30 , 4:15, 5:00, 9:45

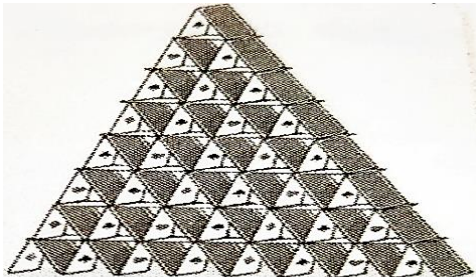
MATHS

1. Answer the questions based on the given information. (In A4 size paper)

Shown below is a house of cards, a structure created by stacking playing cards on the top of each other in the shape of a pyramid. Each small triangle is made using 3 cards and each layer has 1 less triangle than the layer below it.

Ankit and his friends want to make a house of cards.

- a) Ankit and his friends want to use 3 cards in the top layer and 18 in the bottom layer., form an AP showing number of cards in each layer.
- b) They have a total of 360 cards with them, find maximum number of layers, if they want to have 1 triangle (3 cards) at the top layer.
- c) Ankit is planning to make a pyramid with the top and bottom layer containing 15 and 138 cards respectively. How many layers will such a pyramid have?
- d) Which mathematical concept is used here?



2. Do the following in maths activity (lab book):

- a) Activity 1.2 (Quadratic Polynomials)
- b) Activity 1.5 (Arithmetic progression 1)

SCIENCE

Physics

- 1. State Ohm's law and draw a neat labelled circuit diagram containing a battery, a key, a voltmeter, an ammeter, a rheostat and an unknown resistance to verify it.
- 2. (a) Draw a V-I graph for a conductor obeying Ohm's law.
(b) What does the slope of V-I graph for a conductor represent?
- 3. Give two differences between an ohmic and non-ohmic resistor
- 4. (a) How does the resistance of a wire depend on its radius? Explain your answer.
(b) Two copper wires are of same length, but one is thicker than the other. Which will have more resistance?
- 5. In a conductor, 6.25×10^{16} electrons flow from its end A to B in 2 s. Find the current flowing through the conductor. ($e = 1.6 \times 10^{-19}$ C)

Chemistry

- 1. Experiment: study the following properties of acetic acid.
 - (i) Odour
 - (ii) solubility in water
 - (iii) effect on litmus
 - (iv) reaction with sodium hydrogen carbonate
- 2. Experiment: study of the comparative cleaning capacity of a sample of soap in soft and hard water.

Write the above experiments in practical copy

Biology

"When pea plants having round and yellow seeds were crossed with plants having wrinkled and green seeds, all the plants of F-1 generation had round and yellow seeds".

Find out the phenotypic ratio of F-2 generation.

Prepare a flow chart (in A-4 size sheet) to show the experiment.

SOCIAL SCIENCE

History

Make a chart (in A4 paper) stating the names of any 5 Inventions of the Industrial Revolution, the name of the inventor, the year, and a picture of the inventions.

Civics

- A. List 5 problems that endanger democracy in our country.
- B. Suggest how students can contribute to making democracy more successful.

Geography

Paste the pictures of different energy resources and mention their distribution and prospects in India.

Economics

Project: Consumer Awareness

