

**PREP UP TO FRAME ANSWERS SMARTLY**

Moms to students who are going through their high exams that they must excel in their internal examination plans. From what we can gather from the recent papers released by CBSE, the English paper could be tough and students must be ready to use their best thinking to comprehend questions and frame answers. Whether answers would be brief or elaborate, don’t forget to how the following points:

1. First and foremost, reading the entire question carefully is a must. A minor difference in the instruction can fetch you the full marks or deduction.
2. Make sure your answer is well-structured. You must have a clear idea of the answer you are going to write. Thoroughly read the question and then begin writing.
3. Flag the keywords in the question. This will help you to frame your answer in a proper manner.
4. Make sure your answer is complete. A proper structure and logical flow of ideas are essential to get full marks.

**EXPERIMENT 1**

**BEND WIND POWER WITH ELECTRICITY**

This experiment is so simple you can do it at any time. It is the perfect project that turns your wind blowing in the crowd into a floating water, without water actually being thrown by the wind.

**EXPLANATION:**

While bending hair, electrons are collected on the comb. These electrons have repulsion charge. When enough charge is collected by comb, a part of wind force is transferred to comb. The pressure causes the wind to float.

**EXPERIMENT 2**

**FLOAT EGG IN WATER**

Picks any egg in a glass of water. Think about what happens, and tell your teacher, friends, and other students what you observe.

**EXPLANATION:**

The water rises to the egg. As you add water to the glass, the egg will float.

**EXPERIMENT 3**

**SUBMARINE BOTTLE**

Take a soft drink bottle and fill it with water. Tie a piece of string around the neck of the bottle, and fill it with water. The pressure builds up inside the bottle. What happens when you pull the string off the bottle? The water will start flowing out of the bottle. When you pull the string off the bottle, the water will start flowing out of the bottle.

**EXPLANATION:**

The plastic bottle comes from the water. As you add water to the glass, the egg will float.

**EXPERIMENT 4**

**FLOATATION OF NEEDLE ON WATER**

The needle floats. The needle is less than the amount of water it displaces and should float on the surface. It happens because of the buoyancy force of water. When the needle is placed in water, it will float because it is less than the amount of water it displaces.

**EXPLANATION:**

The needle floats because it displaces a greater volume of water than itself.

**EXPERIMENT 5**

**FUN WITH ICE CUBES**

A simple way to cool your drink is by placing an ice cube in it.

**EXPLANATION:**

The ice cube cools the drink, and the water inside it becomes cooler.

**EXPERIMENT 6**

**BAR MAGNET’S MAGNETIC FIELD LINES**

Take a few iron filings and spread them on a gentle piece of paper. Put a bar magnet under the sheet of paper. What happens to the iron filings?

**EXPLANATION:**

The iron filings are attracted to the magnetic field lines. The pattern of the filings shows the magnetic field strength at different points.

**EXPERIMENT 7**

**TO SHOW THE PRESENCE OF ATMOSPHERIC PRESSURE**

Take a glass, tube, and a paper clip. Use a glass with a paper clip and tube in it. The paper clip is now pulled to the bottom of the tube.

**EXPLANATION:**

When the paper clip is pulled to the bottom of the tube, the pressure is applied on the paper clip.

**EXPERIMENT 8**

**AIR CONTAINS NITROGEN AND OXYGEN IN RATIO 4:1 BY VOLUME**

Take a glass, tube, and a paper clip. Use a glass with a paper clip and tube in it. The pressure is applied on the paper clip.

**EXPLANATION:**

When the paper clip is pulled to the bottom of the tube, the pressure is applied on the paper clip.

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**FOCUS. LEARN. MASTER.**

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**MY SCHOOL PROJECT**

**CRISP-CAS9**

Marvels of genetic engineering

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**SALIENT FEATURES**

- There are many genetically modified modifications in Agriculture and Medicine industries.
- Engineering, genetic modification, and bioinformatics are used in the medicine industry to produce medicine for medical purposes.
- Genetic engineering to develop a genetically modified organism that can be used to carry a genetic disorder.
- Genetic engineers today find it possible to add the gene in any organism to control the production of a particular protein.
- CRISP-CAS9 can be used to deliver a therapy (by editing existing cells) or to insert a new gene.
- CRISP-CAS9 involves having the enzyme Cas9, a component of the CRISPR-Cas9 system.
- CRISP-CAS9 is a powerful tool to edit the DNA of the cell.

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**HOW WE WENT ABOUT IT**

We used the CRISP-CAS9 system to develop a targeted method for delivering the CRISPR-CAS9 system to the DNA. We then modified the system to make it more efficient and to achieve genome editing in a controlled manner.

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**MORE FACTS**

- December 10, 2018: A day of freedom, January 10, 2019: A day of freedom, and January 10, 2020: A day of freedom.
- CRISP-CAS9 is a powerful tool to edit the DNA of the cell.
- CRISP-CAS9 involves having the enzyme Cas9, a component of the CRISPR-Cas9 system.

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**SUPPLEMENTAL CONTENT**

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