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## CBSE Sample Paper Class 9 Science 2019-20

Subject: Science Class: 9 Maximum Marks: 80 Duration: 3 hours

Section A: Objective Type Questions (Each question carries 1 mark)

1. Which of the following is a non-metal? (a) Copper (b) Silver (c) Iron (d) Oxygen
2. What is the SI unit of electric current? (a) Ampere (b) Volt (c) Ohm (d) Watt

Section B: Short Answer Type Questions (Each question carries 2 marks)

3. Differentiate between a pure substance and a mixture.
4. Write the balanced chemical equation for the reaction between sodium hydroxide and hydrochloric acid.

Section C: Long Answer Type Questions (Each question carries 3 marks)

5. Explain the process of photosynthesis in plants.
6. Describe the working principle of a concave lens with the help of a ray diagram.

Section D: Higher Order Thinking Skills Questions (Each question carries 5 marks)

7. Explain the steps involved in the formation of a rainbow.
8. A student wants to investigate the effect of light on the growth of plants. Design an experiment to carry out this investigation, including the variables and steps involved.

Section E: Practical Based Questions (Each question carries 4 marks)

9. A student wants to determine the focal length of a concave mirror by obtaining the image of a distant object. Explain the steps the student should follow to perform this experiment.



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10. An object is placed in front of a converging lens and the image formed is observed on a screen. Draw the ray diagram to show the formation of the image and label the principal focus, object distance, image distance, and height of the object and image.

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