

## **ICSE Class 9 Chemistry Important Questions**

- 1. Define:
  - a. Photochemical reaction
  - b. Electrochemical reaction
  - Give one example in each case.
- 2. When 8.4 g of potassium bicarbonate is added to a dilute solution of hydrochloric acid weighed as 20 g, it is observed that 4.4 g of  $CO_2$  is released into the atmosphere. The residue left behind is 24 g. Show that these observations are in accordance with law of conservation of mass.
- 3. What is decomposition? Support your answer by an example.
- 4. State and explain Boyle's law with the help of graphical verification.
- 5. Draw the orbit structure and electron dot diagrams of NaCl, and MgCl<sub>2</sub>.
- 6. Write the chemical formula of the sulphates of aluminium, ammonium and zinc.
- 7. Why does the salt content in cooked vegetable remain the same, irrespective of whether the cooked food is hot or cold?
- 8. Explain exothermic and endothermic reactions with suitable examples.
- 9. Describe Bohr's atomic model of an atom.
- 10. How are chlorofluorocarbons decomposed?
- 11. The volume occupied by a certain gas was found to be 5.6 dm3 at 2 atmospheric pressure. If the pressure is increased by 20%, find the new volume of the gas.
- 12. 100 cm3 of a gas at 27°C is cooled to 20°C at constant pressure. Calculate the volume of gas at 20°C.
- 13. Write the main causes of acid rain.
- 14. What are the merits of Mendeleev's periodic table?
- 15. Three elements 'A', 'B' and 'C' have atomic numbers 4, 12 and 19, respectively. State the electronic configuration and the number of valence electrons in each element.
- 16. Explain the distribution of electrons in Bohr's model of an atom.

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- 17. State the position of hydrogen in the modern periodic table.
- 18. At a constant temperature, a gas at a pressure of 750 mm of mercury occupies a volume of 100 cm3. If the volume is decreased by 40%, then find the new pressure.
- 19.2.5 dm3 of dry nitrogen gas is collected at a temperature of 27°C and a pressure of 740 mm of mercury. Find the volume of the gas at STP.
- 20. Which chemicals are responsible for the depletion of the ozone layer? Explain in detail.



