

1. State any two applications of baking soda.
2. Define magnetic lines of force and state its two properties.
3. Differentiate between Normal elements and Transition elements.
4. Define corrosion. What is meant by rust? Write the chemical formula of rust.
5. What do you do in the following situations:
 - i. Exposed to exhaust fumes in traffic.
 - ii. Exposed to a series of fire crackers with high sound level.
 - iii. Get turbid drinking water during monsoon.
6. State any three demerits of Mendeleev's periodic table.
7. Draw a neat labelled diagram of the human excretory system.
8. Differentiate between Mendel's monohybrid cross and dihybrid cross.
9. Explain the following reaction with the help of a balanced chemical equation: Magnesium reacts with hot water.
10. What is recycling? Give one example.
11. What are vestigial organs? Give one example.
12. Write a short note on Catenation.
13. What is the need to use eco-friendly technology?
14. What is embryology? How does its study lead us to understand evolution?
15. What would be the consequences of the deficiency of haemoglobin in the human body?
16. Answer the following questions with respect to the sexual reproduction in plants:
 - i. State the name of the functional unit concerned with sexual reproduction.
 - ii. Name the part made up of the stigma, style and ovary.
 - iii. Name the swollen lower part of the carpel.
 - iv. Name the male part of the flower.
 - v. Where are the pollen grains produced?
17. The velocity of light in a medium is 1.5×10^8 m/s. What is the refractive index of the medium with respect to air, if the velocity in the air is 3×10^8 m/s?
18. State Fleming's Right Hand Rule.

19. Distinguish between oxidation and reduction.
20. What major harms are done to human beings due to air pollution?



