

SUMMATIVE ASSESSMENT 2
G. SCIENCE
CLASS VII
ASSIGNMENT NO: 25
Unit-6 PHYSICAL AND CHEMICAL CHANGES

- Q1) What is a physical change? Give examples.
- Q2) What is a chemical change? Give examples.
- Q3) Write three differences between a physical and a chemical change.
- Q4) Classify the following changes as physical or chemical change:
- i. Rusting of iron
 - ii. Burning of crackers
 - iii. Digestion of food
 - iv. Melting of ice
 - v. Chopping of wood
 - vi. Respiration
 - vii. Growing of a seed into a plant
 - viii. Dissolving sugar in water
- Q5) When we put an iron nail in Copper Sulphate solution, we find that after some time the blue colour of the solution changes to green. Also, a deposition of a brown substance takes place on the iron nail.
- i. Write the equation involved.
 - ii. Why does the colour of the solution change?
 - iii. What is the brown deposit on the iron nail?
 - iv. Is it a physical or a chemical change?
- Q6) Give one standard test for Carbon Dioxide. Also write the equation involved. Is it a physical or a chemical change?
- Q7) Define rusting. What are the conditions necessary for rusting?
- Q8) What is rust? What is its chemical formula?
- Q9) Define galvanisation. Why are the iron pipes in our homes galvanized?
- Q10) Why does rusting take place faster near the coastal areas?
- Q11) Explain two methods by which rusting of iron can be prevented.

- Q12) Explain how painting of an iron gate prevents it from rusting.
- Q13) Define crystallization. Is it a physical or a chemical change?
- Q14) How is melting of wax different from burning of wax?
- Q15) Explain why ozone layer in our atmosphere is regarded a protective shield?
- Q16) Rewrite the following chemical changes with the help of chemical formulae:

- (a). Magnesium + Oxygen -----> Magnesium oxide
- (b). Magnesium Oxide + Water -----> Magnesium hydroxide
- (c). Copper sulphate + Iron -----> Iron sulphate + Copper

Q.17) Ram and his neighbour Shyam have got their homes fenced with iron rods. Ram saw the next day that Shyam was painting the iron fence. Shyam suggested Ram to do the same to increase the longevity of iron rods by preventing corrosion. Ram argues that it is a waste of time and the iron rods are strong.

Answer the following questions

- (i) Whose opinion is correct according to you? What values are promoted here?
- (ii) Other than painting, what are the other ways to prevent corrosion?