

**SUMMATIVE ASSESSMENT 2**  
**G. SCIENCE**  
**Class VIII**  
**ASSIGNMENT No: 14**  
**Unit-4 MATERIALS-METALS AND NON-METALS**

Q.1. Fill in the blanks

- 1) \_\_\_\_\_ and \_\_\_\_\_ metals are soft and can be cut with a knife.
- 2) \_\_\_\_\_ is the only metal, which is found in liquid state at room temperature.
- 3) A suspension of rust in water turns \_\_\_\_\_ litmus \_\_\_\_\_. So it is \_\_\_\_\_ in nature.
- 4) In general, metallic oxides are \_\_\_\_\_ in nature whereas oxides of non-metals are \_\_\_\_\_ in nature.
- 5) Metals react with acids to produce \_\_\_\_\_ gas which burns with a \_\_\_\_\_ sound.
- 6) A \_\_\_\_\_ reactive metal can replace a \_\_\_\_\_ reactive metal from its salt solution.
- 7) The elements which possess character of both metals and non metals are called \_\_\_\_\_.
- 8) The non-metal \_\_\_\_\_ is used in water purification process.
- 9) The non-metal \_\_\_\_\_ is found in the liquid state

Q.2. Give reasons for the following.

- 1) Bells used in temples are made of metals and not wood.
- 2) A copper vessel when exposed to moist air for long acquires a dull green coating.
- 3) Sodium metal is kept stored in kerosene.
- 4) Phosphorus is kept stored in water.
- 5) Gold and Silver are used for making jewellery.
- 6) Copper is used in electrical wiring.

Q3. Choose the correct answer.

1) The property of metals by which they can be beaten into thin sheets is called:

- (i) Malleability                      (ii) Ductility
- (iii) Conductivity                      (iv) None of the above

2) Materials which are generally hard, lustrous, malleable, ductile, sonorous and good conductors of heat and electricity are:

- (i) Non-metals                      (ii) Metals
- (iii) Metalloid                      (iv) None of the above

3) Which of the following is a non-metal:

- (i) Sodium                      (ii) Aluminum
- (iii) Sulphur                      (iv) Calcium

4) The metal which is the best conductor of electricity is:

- (i) Silver                      (ii) Gold
- (iii) Copper                      (iv) Zinc

Q.4. How do metals and non-metals differ in their reaction with acids?

Q.5. What are displacement reactions? Give one example.

Q.6. Write four differences in the physical properties of metals and non metals.

Q.7. When zinc granules are put in copper sulphate solution and left undisturbed for sometime, we find that the blue colour of the solution disappears and a powdery red mass is deposited at the bottom of the beaker. Write the equation involved. What type of reaction is this? Explain the observations.

Q.8. . When we keep copper turning in zinc-sulphate solution for sometime, we find that there is no change. Explain why is it so?

Q.9. What is reactivity series of metals? Arrange the following metals in decreasing order of reactivity- Iron, Sodium , Copper, zinc.

Q10 Sneha and Neha are friends. Sneha belongs to a rich family and believes in throwing things after use, while Neha does not like wastage and reuses things. Answer the following questions

(i)How reusing things avoids wastage?

(ii)List any two examples where you can reuse things.

(iii) What change can you make in your habits to become more eco-friendly?