

NEW AL WUROOD INTERNATIONAL SCHOOL, JEDDAH, K.S.A

Affiliated to CBSE – New Delhi, Affiliation No. 5730008



WORKSHEET -I

GRADE: VIII

SUBJECT: SCIENCE-
FIRST TERM EXAMINATION
BLOCK-7 and 8

I. Choose the correct answer

1. Metals generally react with dilute acids to produce hydrogen gas .Which one of the following metals do not react with dilute hydrochloric acid?
a. Magnesium b. Aluminium c. Iron d. Copper
2. Which of the following reacts with cold water vigorously?
a. Carbon b. Sodium c. Magnesium d. Sulphur
3. Generally metallic oxides are basic and non metallic oxides are acidic in nature. Solution of which of the following oxides in water will change the colour of blue litmus to red?
a. Sulphur dioxide b. Magnesium oxide c. Iron oxide d. Copper oxide
4. Which of the following metals is used in electroplating to make objects appear shining?
a. Iron b. Copper c. Chromium d. Aluminium
5. Which of these is the most reactive metal?
(a) Magnesium (b) gold (c) platinum (d) sodium
6. Which of these metals cannot displace hydrogen from a dilute acid?
(a) Iron (b) zinc (c) silver (d) calcium
7. Which of these metals can displace all the other three metals from their salt solutions?
(a) Copper (b) iron (c) silver (d) zinc
8. In displacement reactions
(a) a more reactive metal displaces a less reactive metal.(b) a less reactive metal displaces a more reactive metal. (c) both (a) and (b) (d) none of these

II. Answer the following in a word or sentence.

9. Zinc sulphate forms a colourless solution in water. Will you observe any colour on adding copper turning in it?
10. Which of the following metal can displace the other two metals from their salt solutions?
Zinc, Iron, Copper
11. Explain the term 'malleability' with suitable examples.
12. Why aluminium is used for wrapping of food items?
13. Name the property of iron metal due to which it can be hammered to make objects of different shapes such as an axe, a spade or a shovel
14. An element forms an oxide which is acidic in nature. State whether the element is a metal or a non-metal?
15. Which metal is higher up in the reactivity series – sodium or silver?
16. A metal X can replace another metal Y from its metal salt. Is X above or below Y in the reactivity series?
17. What do you mean by reactivity series of metals?
18. Aluminium protects itself against corrosion. Discuss why it is necessary to anodize aluminium to make it corrosion resistant.

III. Answer the following questions in three to four sentences

19. What happens when a magnesium ribbon is heated in presence of air?
20. If a metal coin is dropped on a hard floor, it produces a ringing sound. What is this property of metals known as?
21. What happens when a copper vessel is exposed to moist air for long? Also write the equation.
22. Iron metal reacts slowly with the oxygen and moisture of damp air to form rust. State whether the rust formed is acidic, basic, or neutral.
23. Assertion (A) When a bicycle is in motion, the force of friction exerted by the ground on the two wheels is always in forward direction
Reason (R) The frictional force acts only when the bodies are in contact

IV. Answer the following questions in four to five sentences

24. Tin is electroplated on iron to make cans used for storing food. Why?
25. Rani wants to deposit silver on an iron spoon. She took silver nitrate (AgNO_3) solution in a beaker and set up a simple circuit for electroplating. Which terminal of the battery should the spoon be connected to? What material should the other electrode is made of?
26. Rinu bought a statue made of copper. To her surprise it acquired a dull green coating after a couple of months. State the reason.
27. Can you store lemon pickle in an aluminium utensil? Explain
28. Noble Metals are used to make jewellery because they are very reactive. Do you agree? Give reasons.
29. Silver is the best conductor of electricity. Can you say why electric wires are not made of silver?

V. Answer the following in detail:

30. Gold is a very precious metal. Pure gold is very soft and is thus not suitable for making jewellery. It is alloyed with either silver or copper to make it hard. But some jewelers mix a large quantity of copper and silver in gold to earn more profit.
- (a) What precautions should you take while purchasing gold jewellery?
(b) What standard you must see on gold ornaments?
(c) What value of shopkeeper's are shown here?
31. Mercury is largely used in thermometers to measure the temperature. It is a very dangerous metal as its density is very high. If it get into the food chain, it leads to mercury poisoning.
- (a) What two precautions you must take while handling equipments containing mercury?
(b) Why mercury is used in thermometers?
(c) Can you suggest other alternatives to mercury thermometers?
32. State whether a displacement reaction will occur if the following are mixed. Give reasons. Give the reaction.
- (a) copper sulphate and zinc
(b) copper sulphate and iron
(c) zinc sulphate and copper
(d) zinc sulphate and iron
(e) iron sulphate and zinc
(f) iron sulphate and copper
