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Practice **Set 5**

Metals & **NON-METALS**

Topics :

Physical properties of Metals and Non-metals, Chemical Properties of Metals, How do Metals and Non-metals React? : Properties of Ionic compounds, Corrosion of Metals.

DDCE final exam weightage of this topic : 3 Questions (6 Marks)

**Total Practice sets
of this topic :**

10 (sets) x 30 (questions) = 300 Questions

**Total Practice tests
of this topic :**

2 (exams) x 25 (questions) = 50 Questions

**Offline / Online
during lecture :**

4 (lectures) X 50 (Questions) = 200 Question

**Total 550 Questions to
practice this topic**



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UNITY TRAINING ACADEMY FOR DDCET

Section 1 :

Physical properties of Metals and Non-metals, Chemical Properties of Metals, How do Metals and Non-metals React? : Properties of Ionic compounds, Corrosion of Metals.

1. Which of the following is a good conductor of electricity?
 - A) Sulphur
 - B) Phosphorus
 - C) Copper
 - D) Carbon
2. Which of these is not a metal?
 - A) Iron
 - B) Zinc
 - C) Sulphur
 - D) Copper
3. Which metal is liquid at room temperature?
 - A) Iron
 - B) Zinc
 - C) Mercury
 - D) Sodium
4. Which metal is soft and can be cut with a knife?
 - A) Iron
 - B) Aluminium
 - C) Sodium
 - D) Copper
5. Which of the following is a poor conductor of heat?
 - A) Iron
 - B) Lead
 - C) Aluminium
 - D) Copper
6. Which non-metal exists in liquid state?
 - A) Oxygen
 - B) Nitrogen
 - C) Bromine
 - D) Chlorine
7. Which metal is the best conductor of electricity?
 - A) Gold
 - B) Silver
 - C) Iron
 - D) Copper
8. Non-metals are usually:
 - A) Ductile
 - B) Good conductors
 - C) Poor conductors
 - D) Sonorous
9. The property of producing sound when struck is:
 - A) Malleability
 - B) Sonority
 - C) Ductility
 - D) Brittleness
10. Metals react with oxygen to form:
 - A) Acids
 - B) Bases
 - C) Salts
 - D) Alcohols





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11. The reaction of metal with water gives:

- A) Salt
- B) Hydrogen gas
- C) Oxygen
- D) Carbon dioxide

12. Metals form:

- A) Positive ions
- B) Negative ions
- C) No ions
- D) Complex ions

13. Which metal does not react with water?

- A) Sodium
- B) Magnesium
- C) Zinc
- D) Lead

14. Which gas is evolved when a metal reacts with dilute acid?

- A) Oxygen
- B) Hydrogen
- C) Nitrogen
- D) Carbon dioxide

15. Aluminium reacts with oxygen to form:

- A) Al_2O_3
- B) $AlCl_3$
- C) $AlOH$
- D) $AlSO_4$

16. Which of the following is more reactive?

- A) Copper
- B) Silver
- C) Potassium
- D) Gold

17. A more reactive metal can:

- A) Displace a less reactive metal
- B) React with water only
- C) React with carbon
- D) Not react

18. Metals reacting with acid produce:

- A) Salt and oxygen
- B) Salt and hydrogen
- C) Hydrogen and oxygen
- D) Water and salt

19. The order of reactivity (highest to lowest) is:

- A) Copper > Iron > Zinc
- B) Potassium > Sodium > Calcium
- C) Zinc > Sodium > Aluminium
- D) Silver > Gold > Copper

20. When a metal reacts with a non-metal, it forms:

- A) Covalent compound
- B) Ionic compound
- C) Metallic compound
- D) Complex salt

21. In ionic bonding, non-metals:

- A) Lose electrons
- B) Gain electrons
- C) Share electrons
- D) Remain neutral

22. Ionic compounds conduct electricity when they are:

- A) In the solid state
- B) Dissolved in water or in the molten state
- C) In the gaseous state
- D) In any physical state





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23. Which of the following is an ionic compound?

- A) CH_4
- B) CO_2
- C) NaCl
- D) H_2O

24. Ionic compounds have:

- A) Low melting point
- B) High melting point
- C) No melting point
- D) Decomposing nature

25. The rusting of iron is a type of:

- A) Sublimation
- B) Decomposition
- C) Corrosion
- D) Condensation

26. Corrosion weakens metals by:

- A) Melting them
- B) Reducing their strength
- C) Increasing ductility
- D) Improving conductivity

27. Rusting occurs in the presence of:

- A) Oxygen and sunlight
- B) Water and oxygen
- C) Heat and salt
- D) Water and carbon dioxide

28. The metal that does not corrode easily is:

- A) Iron
- B) Aluminium
- C) Copper
- D) Gold

29. Which method is used to prevent rusting?

- A) Heating
- B) Galvanization
- C) Hammering
- D) Melting

30. The green coating on copper is due to:

- A) Water
- B) Dust
- C) Copper carbonate
- D) Iron oxide

