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## NCERT Class X Science Class: Chapter – 3. Metals and Nonmetals – Part-2

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### Question 7:

Generally metals react with acids to give salt and hydrogen gas. Which of the following acids does not give hydrogen gas on reacting with metals (Except Mn and Mg) ?

1.  $H_2SO_4$
2.  $HCl$
3.  $HNO_3$
4. All of these

**Answer: C**

### Reaction with Metals - general

- Many metals react with acids to form a salt and hydrogen gas.
- The general word equation is:



- The salt will depend upon the metal and the acid used.

- Hydrochloric acid gives **metal chlorides**
- Sulphuric acid gives **metal sulphates**
- Nitric acid gives **metal nitrates**

### Question 8:

The composition of aqua-regain is

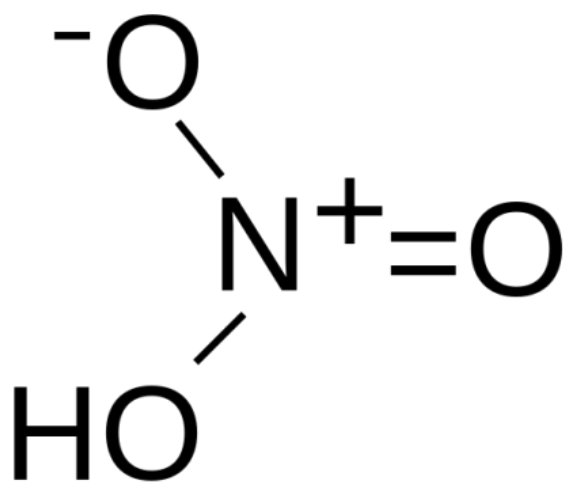
1.  $\text{Dil. HCl} : \text{Conc. HNO}_3$   
3 : 1
2.  $\text{Conc. HCl} : \text{Dil. HNO}_3$   
3 : 1
3.  $\text{Conc. HCl} : \text{Conc. HNO}_3$   
3 : 1
4.  $\text{Dil. HCl} : \text{Dil. HNO}_3$   
3 : 1

**Answer: C**

HCl

HCl

HCl



**Question 9:**

Which of the following are not ionic compounds?

1. *KCl*

2.  $HCl$

3.  $CCl_4$

4.  $NaCl$

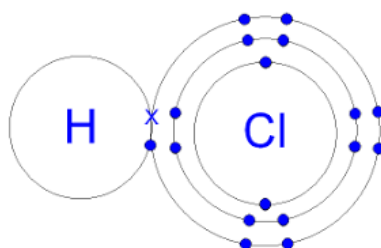
5. (i) and (ii)

6. (ii) and (iii)

7. (iii) and (iv)

8. (i) and (iii)

**Answer: B**

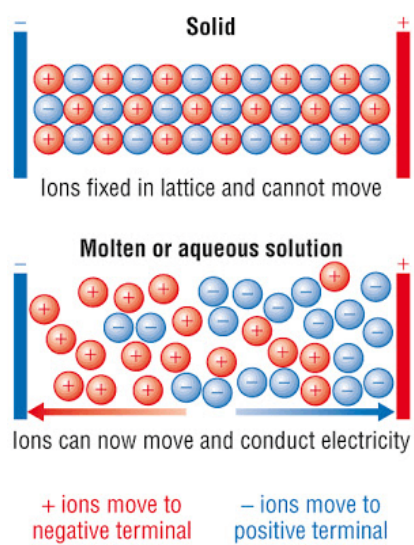


**Question 10:**

Which one of the following properties is not generally exhibited by ionic compounds?

1. Solubility in water
2. Electrical conductivity in solid state
3. High melting and boiling points
4. Electrical conductivity in molten state

**Answer: B**

**Question 11:**

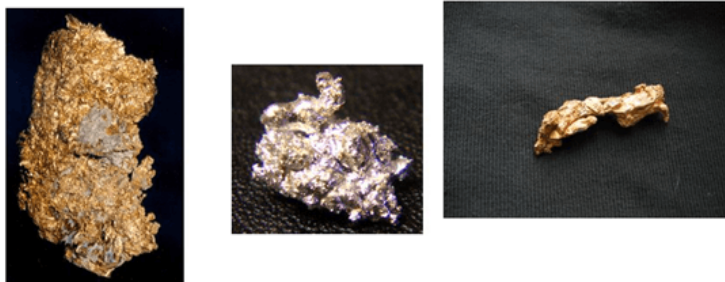
Which of the following metals exist in their native state in nature?

1.  $Cu$
2.  $Au$
3.  $Zn$
4.  $Ag$
5. (i) and (ii)
6. (ii) and (iii)
7. (ii) and (iv)
8. (iii) and (iv)

**Answer: C**

## Native

Some **unreactive** metals can be found as **elements**. They are called **native** metals.



### Question 12:

Metals are refined by using different methods. Which of the following metals are refined by electrolytic refining?

1.  $Au$
2.  $Cu$
3.  $Na$
4.  $K$
5. (i) and (ii)
6. (i) and (iii)
7. (ii) and (iii)
8. (iii) and (iv)

**Answer: A**

