

## MULTIPLE CHOICE

Choose the correct answer from the following choices:

**1. Industrial chemistry deals with the manufacturing of compounds:**

- in the laboratory
- on micro scale
- on commercial scale
- on economic scale

**2. Which one of the following compounds can be separated by physical means?**

- mixture
- element
- compound
- radical

**3. The most abundant element occurring in the oceans is:**

- oxygen
- hydrogen
- nitrogen
- silicon

**4. Which one of the following elements is found in most abundance in the Earth's crust?**

- oxygen
- aluminium
- silicon
- iron

**5. The third abundant gas found in the Earth's atmosphere is:**

- carbon monoxide
- oxygen
- nitrogen
- argon

<b>6. One amu (atomic mass unit) is equivalent to:</b>	
1.66 x 10 <sup>-24</sup> mg 1.66 x 10 <sup>-24</sup> g 1.66 x 10 <sup>-24</sup> kg 1.66 x 10 <sup>-23</sup> g	
<b>7. Which one of the following molecule is not tri-atomic?</b>	
H <sub>2</sub> O <sub>3</sub> H <sub>2</sub> O CO <sub>2</sub>	
<b>8. The mass of one molecule of water is:</b>	
18 amu 18 g 18 mg 18 kg	
<b>9. The molar mass of H<sub>2</sub>SO<sub>4</sub> is:</b>	
98g 98 amu 9.8 g 9.8 amu	
<b>10. Which one of the following is a molecular mass of O<sub>2</sub> in amu?</b>	
32 amu 53.12 x 10 <sup>-24</sup> amu 1.92 x 10 <sup>-25</sup> amu 192.64 x 10 <sup>-25</sup> amu	

**11. How many number of moles are equivalent to 8 grams of  $\text{CO}_2$ ?**

- 0.15
- 0.18
- 0.21
- 0.24

**12. In which one of the following pairs has the same number of ions?**

- 1 mole of  $\text{NaCl}$  and 1 mole of  $\text{MgCl}_2$
- 1/2 mole of  $\text{NaCl}$  and 1/2 mole of  $\text{MgCl}_2$
- 1/2 mole of  $\text{NaCl}$  and 1/3 mole of  $\text{MgCl}_2$
- 1/3 mole of  $\text{NaCl}$  and 1/2 mole of  $\text{MgCl}_2$

**13. Which one of the following pairs has the same mass?**

- 1 mole of  $\text{CO}$  and 1 mole of  $\text{N}_2$
- 1 mole of  $\text{CO}$  and 1 mole of  $\text{CO}_2$
- 1 mole of  $\text{O}_2$  and 1 mole of  $\text{N}_2$
- 1 mole of  $\text{O}_2$  and 1 mole of  $\text{CO}_2$