



## COLLEGE OF Engineering & Technology

Department: Basic and Applied Sciences

Lecturer : Chemistry Staff.

Course : Engineering chemistry.

A<sub>1</sub>

Course No. : BA 118

Date : 19/5/2013

Name	
Reg.number	
Class	

### Complete the following sentence:

1. The atom is defined as .....
2. The molecular weight of (M.wt) Sulfuric acid ( $H_2SO_4$ ) is.....
3. The molarity (M) of 5 moles of hydrochloric acid HCl dissolved in 1 liter of water is.....
4. The function of the indicator in acid-base titration experiment is to differentiate between acid , base and neutral medium by change in .....
5. Soft water consists of low concentration of ..... and ..... salts.
  - The atomic weight of (H =1, S =32, O =16, Cl =35.5)



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A<sub>2</sub>

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### Complete the following sentence:

1. The Atomic weight is considered to be the weight of a.....
2. The molecular weight of (M.wt) phosphoric acid ( $H_3PO_4$ ) is.....
3. The molarity (M) of 3.5 moles of sodium chloride NaCl dissolved in 1 liter of water is.....
4. The standard solution in acid-base titration experiment is considered to be a solution of exactly known .....used to determine the .....of sample solution.
5. Hard water consists of high concentration of ..... and ..... salts.
  - The atomic weight of (H =1, P =31, O =16, Cl =35.5, Na = 23)



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A<sub>3</sub>

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### Complete the following sentence:

1. The .....is considered to be the smallest building unit of an element.
2. The molecular weight of (M.wt) calcium hydroxide ( $\text{Ca}(\text{OH})_2$ ) is.....
3. The molarity (M) of 5 moles of sodium chloride NaOH dissolved in 1 liter of water is.....
4. The function of the ..... in acid-base titration experiment is to differentiate between acid , base and neutral medium by difference in color.
5. Temporary hard water is due to the presence of ..... and ..... In form of bicarbonate form being present in water.
  - The atomic weight of (Ca =40, H =1, O =16, Na =23)



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A<sub>4</sub>

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### Complete the following sentence:

1. The ..... is considered to be the weight of a single atom.
2. The molecular weight of (M.wt) ferrous sulfate ( $\text{Fe}_2\text{SO}_4$ ) is.....
3. The molarity (M) of 3.5 grams of calcium chloride  $\text{CaCl}_2$  dissolved in 1 liter of water is.....
4. The ..... in acid-base titration experiment is considered to be a solution of exactly known concentration used to determine the concentration of sample solution.
5. Permanent hard water is due to the presence of ..... and ..... In form of sulfate form being present in water.
  - The atomic weight of (Fe=56, S =32, O =16, Cl =35.5, Ca = 40)



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A<sub>5</sub>

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### Complete the following sentence:

1. The .....is considered to be the smallest building unit of an element.
2. The molecular weight of (M.wt) calcium hydroxide ( $\text{Fe}_2(\text{SO}_4)_3$ ) is.....
3. The molarity (M) of 5 moles of sodium chloride NaOH dissolved in 1 liter of water is.....
4. The function of the ..... in acid-base titration experiment is to differentiate between acid , base and neutral medium by difference in color.
5. Temporary hard water is due to the presence of ..... and ..... In form of bicarbonate form being present in water.
  - The atomic weight of (Fe=56, S=32, H =1, O =16, Na =23)



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A<sub>6</sub>

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### Complete the following sentence:

1. The ..... is considered to be the weight of a single atom.
2. The molecular weight of (M.wt) ferrous sulfate ( $\text{Fe}_2\text{SO}_4$ ) is.....
3. The molarity (M) of 3.5 grams of calcium chloride  $\text{CaCl}_2$  dissolved in 1 liter of water is.....
4. The ..... in acid-base titration experiment is considered to be a solution of exactly known concentration used to determine the concentration of sample solution.
5. Permanent hard water is due to the presence of ..... and ..... In form of sulfate form being present in water.
  - The atomic weight of (Fe=56, S =32, O =16, Cl =35.5, Ca = 40)