(ECC01-0031M)

- Which one of the following substance is used as CO_2 absorber in combustion analysis

  A) $Mg(ClO_4)_2$
  B) 50% KOH
  C) Lime Water
  D) Dilute NaOH

(ECC01-0032M)

- A compound contains 50% oxygen by mass. The empirical formula of compound is

  A) SO
  B) SO_2
  C) SO_3
  D) S_2O_3

(ECC01-0033E)

- Which of the following statement correct about element?

  A) Substance consists of identical atom
  B) It's pure substance
  C) Element is distinguish by its atomic no.
  D) Simplest form of matter
  E) All of these

(ECC01-0034M)

- Oxygen gas contained in a flask at S.T.P was replaced by SO_2 under same conditions. The weight of SO_2 will be

  A) Equal to O_2
  B) Half of O_2
  C) Twice that of O_2
  D) Thrice that of O_2

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(ECC01-0035E)

- The Empirical Formula of a liquid compound to be C_2H_4O. What other information is needed to work out its molecular formula?

  A) The Percentage composition of the compound
  B) The Relative molecular mass of the compound
  C) The density of the compound
  D) The Volume occupied by 1 mole of the compound

(ECC01-0036M)

- How many atoms of oxygen present in 100 grams of $CaCO_3$?

  A) 12.04×10^{23} atoms

  B) Avogadro's number atoms

  C) 18.06×10^{23} atoms
  D) 3.01×10^{23} atoms

(ECC01-0037M)

- A limiting reactant is the one which:

  A) is taken in lesser quantity in grams as compared to reactants

  B) is taken in lesser quantity in volume as compared to other reactants

  C) gives the maximum amount of product which is required

  D) gives the minimum amount of product under consideration

(ECC01-0038M)

- The number of moles of CO_2 which contain 8.00 gm of oxygen is:

  A) 0.75
  B) 0.25
  C) 1.50
  D) 1.00

(ECC01-0039M)

- Which substance will produce maximum carbon dioxide on complete combustion of their one mole in excess of oxygen?

  A) One mole diamond
  B) One mole ethane
  C) One mole methane
  D) One mole carbon monoxide

(ECC01-0040E)

- Element X has the electronic structure 2,8,2. Element Y has the electronic structure 2,8,7. What is the likely formula of a compound containing only X and Y?

  A) XY
  B) X_2Y
  C) X_3Y
  D) XY_2

(ECC01-0041M)

- The volume occupied by 5.4 g of N_2O_5 at STP is :

  A) 2.24 dm^3
  B) 1.12 dm^3
  C) 22.4 dm^3
  D) 112 cm^3

(ECC01-0042M)

- The number of neutrons in 8g heavy water is

    A) 1.2×10^{24}
    B) 2.4×10^{24}
    C) 3.01×10^{24}
    D) 1.8×10^{24}

(ECC01-0043E)

- In mass spectrometry, ionization occurs on:

    A) solid form
    B) liquid form
    C) vapor form
    D) no ionization

(ECC01-0044E)

- Which contains the greatest mass of nitrogen?

    A) 0.5 moles $(NH_4)_2SO_4$
    B) 1 mole NH_4NO_3

    C) 1.5 moles $(NH_4)_3PO_4$
    D) 2 moles $CO(NH_2)_2$

(ECC01-0045H)

- 50 kg limestone is completely roasted to produced quick lime and carbon dioxide. The actual yield of CO_2 is 17.6 Kg. What is the percentage yield of this reaction?

    A) 80%
    B) 75%
    C) 90%
    D) 65%

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Answer Key	
1	B
2	B
3	E
4	C
5	B
6	C
7	D
8	B
9	B
10	D
11	B
12	B
13	C
14	C
15	A

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