

Name _____ Roll No. _____ Section _____

Multiple choice questions. (6)

- i) at equilibrium the concentration and reactants and products ;
 (A) are always equal (B) always change (C) are constant (D) become zero
 ii) a closed system is essential for establishing.
 (A) static equilibrium (B) Dynamic equilibrium (C) No equilibrium (D) Rapid reaction
 iii) the Color of NO₂ gas is
 a) Brown b) black c) white d) green
 Iv) Coal deposits are available in Pakistan
 (A) Sindh (B) Balochistan (C) Punjab (D) KPK
 v) Water gas is the mixture of
 A) CO₂ + H₂O (B) CO + H₂ (C) CO₂ + H₂ (D) CO₂ + H₂O
 vi) colour of anhydrous CuSO₄ is
 A) Blue (B) White (C) Red (D) Yellow

Short Questions (10×2=20)

- i) Write three properties of irreversible reaction.
 ii) what is meant by dynamic equilibrium.
 iii) what is water gas.
 iv) how equilibrium can be restore if we change the concentration of products at equilibrium.
 v) draw a suitable method to withdraw water from the reaction mixture.
 Vi) How ammonia gas is prepared.
 vii) how to get better yield of product in a chemical reaction.
 viii) How can you maximize the yield in a reversible reaction.
 ix) why are combustion reactions are generally irreversible.
 x) How dynamic equilibrium is different from static equilibrium.

Long Questions. (4)

Explain the effect of heat on hydrated copper sulphate.

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