

- A. one σ one π bond
B. two σ one π bond
C. one σ and two π bond
D. three σ bonds only

Answer: Option c

37. Which of the following theories is superior to others

- A. VSEPR
B. VBT
C. MOT
D. none of the above

Answer: Option c

38. Which of the following relation is not possible

- A. $\Delta H = \Delta H_1 + \Delta H_2 = \Delta H_3$
B. $\Delta E = E_1 + E_2 = E_3$
C. $q = q_1 + q_2 = q_3$
D. $\Delta H (\text{cycle}) = 0$

Answer: Option B

39. Which of the following is not characteristics of reversible reaction

- A. whole amount of reactant does not change into product
B. chemical equilibrium is established
C. a catalyst changes the direction of reaction
D. rate of forward reaction decreases as reaction proceeds

Answer: Option c

40. Which of the following points are important in connection with equilibrium constant.

- A. K_c is constant at given temperature
B. K_c is unaffected by change in concentration of reactants or products
C. K_c indicates the extent of reaction but not about the rate of reaction.
D. All of the above

Answer: Option D

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