Chemistry 51

TEST 3 STUDY GUIDE

Topic	*Text Reference*
CHAPTER 6	
• Know what a chemical reaction represents	6.1
• Identify the evidences for a chemical reaction	Notes
• Relate chemical equations to word equations	6.1
• Identify reactants and products in a chemical equation	6.1
• Balance chemical equations	6.1
• Classify chemical equations into one of 5 types	6.2, Notes
• Know the characteristics of each type of reaction	6.2
• Identify the more active metal in a single displacement reaction	Notes
• Complete single displacement reactions based on activity series table in notes	Notes
• Distinguish between oxidation and reduction reactions	6.3
• Identify oxidized and reduced substances in a redox reaction	6.3
• Identify oxidation and reduction reactions in biological systems	6.3
• Understand the concept of mole and Avogadro's number in chemistry	6.4
• Convert moles of a substance to number of particles and vice versa	6.4
• Calculate the number of moles of an element in a compound from its chemical formula	6.4
• Calculate molar mass of a compound from its atomic masses	6.5
• Convert mass of a substance to moles and vice versa	6.5
• Determine the molar ratios of reactants and products in a balanced equation	6.6
• Calculate the moles of a substance from moles of another in a chemical reaction	6.6
• Calculate the mass of a substance from moles of another in a chemical reaction	6.7
• Calculate the mass of a substance from mass of another in a chemical reaction	6.7
• Determine the limiting reactant from given masses of reactants in a chemical reaction	6.8
• Calculate the theoretical and percent yield in a chemical reaction	6.8
• Know the role of energy and heat in a chemical reaction	6.9
• Identify activation energy and enthalpy of reaction from energy diagram	6.9
• Distinguish between endothermic and exothermic reactions	6.9
• Calculate heat of reaction from enthalpy values given for a chemical reaction	6.9