Solutions Worksheet On the line at the left, write the letter of the definition that best matches each term. _1. solution a. capable of being dissolved 2. solute b. solution with water as the solvent solvent c. substance that is dissolved in a solution 4. soluble d. substance that dissolves in water to form a solution that conducts an electric current 5. alloy e. solid solution containing two or more metals ____6. aqueous solution f. homogeneous mixture of two or more substances in a single ____7. electrolyte physical state g. substance that does the dissolving in a solution Answer each of the following questions in the space provided. 8. Describe the properties of a solution 9. Give two examples of solutions in nature and explain why each is important. 10. Describe how a chemist can accurately prepare a solution of precise molarity. Answer each of the following questions in the space provided. concentration sat ur at ed molarity unsat urat ed molality supersaturated is the concentration of a solution expressed as the number of moles of solute dissolved in each liter of solution. solution contains as much solute as can possibly be dissolved under existing conditions of temperature and pressure 12. The amount of solute in a given amount of solvent or solution is the 13. A solution that contains more solute particles than are needed to form a saturated solution is _ of a solution is the number of moles of solute dissolved in each kilogram of solvent. 15. A solution that has less than the maximum amount of solute that can be dissolved is called a(n) _solution.

16. What is the molarity of the solution formed by mixing 0.20 mol of sodium hydroxide with enough

Solve each of the following problems as directed. Show all your work.

water to make 150 ml of solution?