Be sure to show all your work. Circle the correct answer

Name: Answer Keny

1. The salt concentration inside a living co	ell is about 0.15 M. How many moles of NaCl are present in 50.0 mL
of this cytoplasmic solution?	

- a) 0.0175 mol b) 0.15 mol c) 7.5 mol
- d) 15 mol

- a) 11.7 M
- (b) 15.7 M) c) 0.42 M

3. What is the molarity of a hydrochloric acid (HCl) solution if 50.00 mL of this acid requires 16.80 mL of 0.1008 M NaOH for neutralization?

- a) 0.1016 M

4. What volume of 0.500 M NaOH solution must be diluted to prepare 200 mL of 0.200 M NaOH?

(2.00 ×10²)

(2.00 ×10²)

(3.00 ×10²)

(a) 80.0 mL b) 12.5 mL c) 20.0 mL d) 40.0 mL a) 1.00 mL

M, V, z M2 V2

V = M2V2) 0.200 M NEOH 200 2 0 00 0 = 80.0 2

5. What is the molarity of a solution that contains 20.0 g of NaOH dissolved in 400 mL of solution? 6)1.25 M c) 50.0 M d) 1.52 M a) 12.5 M

- 6. What mass of glucose (C₆H₁₂O₆) is required to prepare 500 g of a 5.0 % glucose solution by mass aqueous intra-venous solution?
 - a) 27.0 g
- b) 24.6 g
- c) 26.7 g
- (d) 25.0 g
- e) 18.0 g