Unit Four Homework Assignment w answers Electrolyte and Water Balance (C24)

Overview of Fluid and Electrolyte Physiology (8 min)

- 1. How many the body be divided? Percent of each?
- 2. What factors may cause difference between males and females?
- 3. How is total water volume subdivided? Percent of each?
- 4. How is extracellular fluid further subdivided?
- 5. How much water intake do we need to balance the average water loss?
- 6. How does water move between the three fluid compartments? f
- 7. What will cause water to move from one compartment to another?
- 8. How do we lose water?
- 9. When water accumulates in the interstitial space, how is it returned to the plasma?
- 10. What are the major electrolytes in the extracellular fluid? How do these electrolytes move between plasm and interstitial space?
- 11. May electrolytes freely diffuse across the cell's plasma membrane?
- 12. What is the main cation and anion in the extracellular space?
- 13. What is the main cation and anion in the intracellular space?
- 14. What is the main protein in the plasma? Purpose?
- 15. What is the main anion in the interstitial space? Purpose?
- 16. What may happen if you have high concentrations of potassum or calcium in plasma or extracellular fluid?
- 17. What fluid compartment is monitored by homeostatic mechanisms?

Electrolyte and Fuid Balance for Nursing Students (14 min)

- 1. What are the important functions of water?
- 2. What are the major intracellular electrolytes?
- 3. What are the major extracellular electrolytes?
- 4. What are electrolytes?
- 5. Important cations?
- 6. Important anions?
- 7. What is magnesium major function?
- 8. What may cause hyperkalemia?
- 9. How much calcium is dissolved in blood?
- 10. How is calcium found in the blood?
- 11. What does hypercalcemia cause?
- 12. What does hypocalcemia cause?
- 13. What is main cause for symptoms of hyponatremia?
- 14. What are symptoms of hypernatremia?

Fluid Volume Deficit (8 min)

- 1. What term describes fluid volume deficit? Symptoms? /
- 2. What are the top four causes of dehydration?
- 3. What are top three reasons for dehydration in clinical setting?
- 4. What are the compensations for dehydration? i