Nutrition / Bio 1400 Carbohydrates (C4) Study Guide Cliff Belleau

- 1. What percent should carbohydrates contribute to our daily calory intake?
- 2. What is the main fuel source for the nervous system and red blood cells?
- 3. How many calories per gram for carbohydrates?
- 4. How much and in what form are carbohydrates stored in the body?
- 5. How much glycogen is stored? Resting vs exercise? In hours?
- 6. What is photosynthesis?
- 7. What are the two carbohydrate polymers produced by plants?
- 8. What are the three common monosacharides? Dddisacharides?
- 9. How many Kcal are readily available in the body fluids (blood and interstitial fluid)?
- 10. How many Kcal are stored as glycogen in our bodies?
- 11. What are the two forms of dietary fibers and what are there distinctions?
- 12. What type of food lack carbohydrates?
- 13. What is the preferred source of carbodydrates?
- 14. What is the difference between nutritive sweetners and alternative sweeteners?
- 15. What is the benchmark used to compare sweetness for all other sweeteners? Where does it come from? Its monosacharides?
- 16. How is HFCS made? Over the last 40 years, what has had a positive chorelation with the increasing use of HFCS?
- 17. Why is it not safe to feed infants honey?
- 18. What is sorbitol? Why do we use it?
- 19. Who determines the safety of alternative sweetneners? How is the amount consumable posted?
- 20. What is aspartame?
- 21. How sweet is Splenda?

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- 22. What was the first alternative sweetener developed?
- 23. Study Fig 4-8 / Digestion and Absorption / Know the Seven Steps
- 24. What is lactose intolerance?
- 25. What happened 600 yrs ago to make some people lactose tolerant?
- 26. How are glucose, galactose, and fructose moved from the lumen of the intestine into the absorptive cells of the small intestine?
- 27. What is the significance of protein sparing?
- 28. What causes ketosis and why is it dangerous?
- 29. Study Fig 4-9 / Blood Gucose Regulation
- a. Normal range
- b. result of too much glucose
- c. result of too little glucose
- d. role of insulin, glucagon, epinephrine
- e. hypoglycemic vs hyperglycemic
- 30. What is the glycemic index?
- 31. What is the glycemic load?
- 32. What is the difference between diverticula and diverticulitis?
- 33. What are the benefits of a diet high in soluble (fermentable) fibers (e.g. oatmeal)?
- 34. How much carbohydrates do we need per day?
- 35. What is the dail value for fiber intake?
- 36. What foods do we need to eat to increase "good fiber" intake?
- 37. Is there a risk associated with eating too much fiber? Explain
- 38. What are the dangers associated with consuming too much sugar?
- 39. What is the irony surrounding low fat snacks?
- 40. What is the difference between type I and type II diabetes?
- 41. Waht conditions are associated with metabolic syndrome?