Energy and Disease Test Review

1. Describe photosynthesis and write out the equation. What are the reactants and what are the products?

2. Describe cellular respiration and write out the equation. What are the reactants and what are the products?

3. Describe how photosynthesis and cellular respiration work together? Making sure you discuss what is produced for each that involves energy.

4. How are cellular respiration and fermentation similar and different? List types of fermentation and describe each.

5. Explain how proteins, fats, and carbohydrates are broken down.

6. What is the difference between prokaryote and eukaryote?

7. What are the characteristics for something living?

Fill in the chart located below: (try from memory)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Reproduction, Feed, Survive-Host/No Host** | **Living/Non-living** | **Diseases Caused By** | **Treatment for Diseases** |
| **9. Bacteria** |  |  |  |  |
| **10. Virus** |  |  |  |  |
| **11. Parasite** |  |  |  |  |

12. Describe infectious and noninfectious diseases. List two examples of each.

13. Describe active and passive immunity.

14. What are the parts of a virus? Describe the function of each part.

16. What are the different shapes of bacteria?

17. What disease is caused by body cells that multiply uncontrollably?

18. Which disease attacks the body’s immunity?

19. What is an endospore and when is it formed?

20. What is the difference between an active virus and a hidden virus and how do they work within the cell?

21. What is the difference between a carrier and a vector? Give an example of each.

22. What does the saying: Energy In = Energy Out have to do with calories?

23. How can a person prevent themselves or their family from getting sick?

24. How are vaccines and antibiotics related? What is the difference between a vaccine and an antibiotic?

25. What are examples of ways that you can affect how the body functions?

26. What is the difference between a pandemic and epidemic?

27. How can the substances you consume affect your body?

28. How do organisms obtain energy from food?

29. How has modern travel impacted the spread of disease?

30. List at least two ways we can decrease antibacterial resistance.

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