**Quest/Test 8 Study Guide**

*Please remember this is a guide! You should be studying other materials found in your binder: pages 95-present*

**Define the following words**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1. Prokaryotic
 | 2. Eukaryotic | 3. Microorganism | 4. Bacteria | 5. Parasite | 6. Vector |
| 7. Carrier | 8. Host cell | 9. Virus | 10. Vaccine | 11. Antibiotics  | 12. Epidemic |
| 13. Pandemic | 14. Protozoa | 15. Resistance | 16. Contagion | 17. Fungi | 18. Pathogen |
| 19. Binary fission (E89) the form of asexual reproduction occurring in prokaryotes. ALL BACTERIA CELLS CAN PERFROM THIS.  | 20. Pathology | 21. Microbiology | 22. Epidemiology | 23. Biotechnology |  |

**Answer the following questions. Be very detailed in your answers:**

24. Identify two positive and negative aspects of bacteria

25. How do the following microorganisms reproduce: bacteria, viruses, and fungi

26. Why is it a problem for overprescribing antibiotics?

27. Suppose a bacterial colony begins with 75 bacteria and they reproduce every hour, in how many hours will it take for their population to grow to 9,600 bacteria? How many generations have gone by?

28. Why is a bacteria considered to be the smallest living thing and not a virus?

29. Place the following organisms in order from smallest to largest: virus, bacteria, protozoa (note that protozoa is larger than bacteria)

30. What are some characteristics of the following microbes: bacteria, viruses, fungi, parasites, and protozoa?

31. List at least 3 diseases for each type of microbe: bacteria, viruses, fungi, parasites, and protozoa.

32. What is the difference between epidemic and pandemic?

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