**MITOSIS/MEIOSIS**

**Test Review Guide**

**DEFINE THE FOLLOWING:**

1. chromatin 16. sister chromatid
2. gene 17. centriole
3. spindle 18. cancer
4. mitosis 19. meiosis
5. nucleotide 20. microtubule
6. centromere 21. cleavage furrow
7. contact inhibition 22. enzyme
8. cytokinesis 23. mutagen
9. haploid 24. diploid
10. autosome 25. gamete
11. homologous chromosomes 26. crossing over
12. zygote 27. tetrad
13. spontaneous generation 28. Pasteur
14. Redi 29. fertilization
15. binary fission

30. What are the major events of interphase?

31. What are the major events of prophase?

32. What are the major events of metaphase?

33. What are the major events of anaphase?

34. What are the major events of telophase?

35. What controls the cell cycle?

36. What are the two major phases of the cell cycle?

37. List several possible causes of cancer.

38. List reasons why a cell’s size is limited.

39. Where does meiosis occur in males? In females?

40. In organisms that reproduce by sexual reproduction, what restores the diploid chromosome number?

41. What is the primary advantage of sexual reproduction?

42. Which stage/event of the cell cycle is the longest? Explain why.