

#### Mitosis and Meiosis Test Review

- 1) Know the five stages of mitosis and the important event that happens in each stage
  - 2) Why are there no unicellular organisms that use sexual reproduction
  - 3) What are the two processes to mitosis
  - 4) Define asexual and sexual reproduction
  - 5) What are chromosomes and how many do humans have in each cell
  - 6) Write a rhyme to help remember the stages of mitosis – such as I peeled more apples today (obviously a different one)
  - 7) What does the prefix meta refer to
  - 8) Define cytokinesis
  - 9) Why can't plant cells pinch during mitosis
  - 10) What are the two major differences in plant cell mitosis versus animal cell mitosis
  - 11) What is the simplest form of asexual reproduction and provide an example of a critter that uses it
  - 12) How is budding different from binary fission
  - 13) Define regeneration, cutting layering and grafting
  - 14) What are some of the advantages of artificial reproduction
  - 15) What are the male and female gamete and where is each produced
  - 16) How is spermatogenesis and oogenesis different
  - 17) Name an organism that is a hermaphrodite
  - 18) What is the haploid and diploid number in humans
  - 19) Define the characteristics of meiosis
  - 20) List the stages of meiosis and an important event that happens in each stage
  - 21) Compare internal and external fertilization
  - 22) What is fecundity rate
  - 23) What is parthenogenesis
  - 24) Should we reverse "Mother Nature"
  - 25) What are the three patterns by which animals are born
  - 26) What is disjunction and non-disjunction. What genetic disorder can the latter result in
  - 27) Why is genetic variation a good thing
- What is a tetrad and what is crossing over and how often does it occur