

1. Meiosis and sexual reproduction have fostered diversity in the natural world because they:

- A. are so accurate in copying genetic information.
- B. are nearly certain to produce differences among offspring.
- C. are such ancient processes.
- D. produce genetic replicas, one generation after another.

2. What are the two main sources of genetic diversity in meiosis?

- A. binary fission and regeneration
- B. crossing over and independent assortment
- C. binary fission and crossing over
- D. vegetative reproduction and regeneration

3. Each organism produced through asexual reproduction is genetically _____ to its parent.

4. Meiosis is the process by which the reproductive cells commonly known as _____ and _____ are formed. This takes place by means of one _____ cell, meaning a cell with paired chromosomes, giving rise to four _____ cells, meaning cells that have a single set of chromosomes. 4pts