



CHECK YOUR LEARNING

Suggested Answers

1. Three reasons for cell division are growth, reproduction, and repair.
2. The surface will not stay bacteria-free forever, because if a single bacterium is left alive, it can reproduce to a large number in a fairly short period of time.
3. Asexual reproduction involves only one parent. Sexual reproduction involves two. In asexual reproduction, offspring and parent are identical. In sexual reproduction, offspring and parent are not identical. Asexual reproduction does not involve cells joining together, whereas sexual reproduction does.
4. The two processes responsible for moving chemicals into, throughout, and out of cells are osmosis and diffusion.
5. Cells divide instead of just getting bigger, because if cells become too large, osmosis and diffusion are no longer efficient for transporting materials in and out.
6. Cell division creates new cells that replace those in the wounded area to close and heal the wound.