

QlexNursing: Comprehensive Hesi A2 Exam

Section One: Biology

1. Which combination of cell cycle phase and descriptor is correct?
 - A. G1 phase - the number of chromosomes is doubled
 - B. Interphase - the cell increases in mass and number of organelles to prepare for cell division.
 - C. **S phase - the cell synthesizes DNA and doubles its cytoplasm**
 - D. G2 phase - the phase prior to the start of mitosis in which the cell continues to grow in size and make proteins.

2. Each species has a characteristic chromosome number and most of their cells have a complete set of these chromosomes. However, in the life cycle of humans, only sperm and eggs have which number of chromosomes?
 - A Diploid.
 - B Haploid.**
 - C Polyploid.
 - D Monoploid.

3. Which term means a group of similar cells combined to perform a common function?
 - A. Organ.
 - B. Organism.
 - C. **Tissue.**
 - D. System.

4. Human cells need oxygen for respiration. What system of the body is responsible for transporting an oxygen molecule to different locations throughout the body?
 - A Circulatory.**
 - B Skeletal.
 - C Lymphatic.
 - D Respiratory.

5. Which is an example of the correct organizational hierarchy for a wolf?
 - A Muscle tissue, blood cell, DNA, organ, circulatory system, wolf.