

## 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.