#### AP Biology Chapter 12 Vocabulary and Review Questions

#### Vocabulary

Anaphase Anchorage dependence Benign tumor Binary fission Cell cycle Cell cycle control system Cell division Cell plate Centromere Centrosome Checkpoint Chromatin Chromosome Cleavage Cleavage furrow

Cyclin. Cyclin-dependent kinase (Cdk) Cytokinesis. Density-dependent inhibition G0 phase G1 phase G2 phase Gamete Giernome. Growth factor Interphase Kinetochore Malignant tumor Meicsis:

Metaphase plate
Metastasis
Mitosis
Mitotic (M) phase
Mitotic spindle
MPF
Origin of replication
Prometaphase
Prophase
S phase
Sister chromatids
Somatic cell
Telophase
Transformation
Tumor

Metaphase

#### Things to think about

- 1. Explain how cell division functions in reproduction, growth, and repair.
- Describe the major events in cell division that allow the genome of one cell to be passed to two daughter cells.
- Describe how the amount of DNA changes throughout the human cell cycle.
- List the phases of the cell cycle and describe the sequence of events that occurs during each phase.
- List the phases of mitosis and describe the characteristic events of each phase.
- Draw or describe the spindle apparatus including the centrosomes, kinetochore microtubules, nonkinetochore microtubules, asters, centrioles (in animal cells).
- Describe what changes occur in the spindle apparatus during each phase of mitosis.
- Explain the current model of poleward chromosomal movement and elongation of the cell's polar axis.
- Compare cytokinesis in animal and plants cells.
- 10. Describe the process of binary fission in bacteria.

# **Modern Biology Study Guide Answer Key Chapter 1**

**Ensheng Dong** 

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