



QUIZ

Time

Bio 14,15

Corrected by: Nadine alloom

Bio 14,15

During which phase does DNA replication occur?

- A. G1 phase
- B. S phase
- C. G2 phase
- D. M phase

Which of the following is NOT a phase of mitosis?

- A. Prophase
- B. Metaphase
- C. Interphase
- D. Telophase

What is the function of the APC/C (anaphase-promoting complex/cyclosome)?

- A. Initiates DNA replication
- B. Forms the nuclear membrane
- C. Triggers destruction of M cyclins
- D. Creates the mitotic spindle

What is the name for cells that are not reproductive cells?

- A. Gametes
- B. Somatic cells
- C. Stem cells
- D. Germ cells

What percentage of the cell cycle time is taken up by interphase?

- A. 50%
- B. 70%
- C. 90%
- D. 10%

What is the process called when cancer cells spread to other parts of the body?

- A. Metastasis
- B. Transformation
- C. Proliferation
- D. Mutation

Which phase of mitosis involves the alignment of chromosomes at the metaphase plate?

- A. Prophase
- B. Metaphase
- C. Anaphase
- D. Telophase

What is the name of the protein complex that attaches chromosomes to spindle fibers?

- A. Kinetochore
- B. Centrosome
- C. Nucleolus
- D. Aster

Which checkpoint is considered the most important and occurs in G1 phase?

- A. Spindle checkpoint
- B. DNA damage checkpoint
- C. Restriction checkpoint
- D. Unreplicated DNA checkpoint

What structure holds sister chromatids together?

- A. Centrosome
- B. Kinetochore
- C. Centromere
- D. Aster

Answers

1-b

6-a

2-c

7-b

3-c

8-a

4-b

9-c

5-c

10-c



QUIZ

Time

Bio 16

Corrected by: Nadine alloom

Bio 16

1. What structure holds sister chromatids together?
 - A. Centromere
 - B. Chiasma
 - C. Spindle fiber
 - D. Nuclear envelope
2. What is the name for the fertilized egg cell?
 - A. Gamete
 - B. Zygote
 - C. Somatic cell
 - D. Germ cell
3. Which of the following best describes a haploid cell?
 - A. A cell containing two sets of chromosomes
 - B. A cell containing replicated chromosomes
 - C. A cell containing one set of chromosomes
 - D. A cell containing four sets of chromosomes
4. Which phase typically occupies more than 90% of the time required for meiosis I?
 - A. Prophase I
 - B. Metaphase I
 - C. Anaphase I
 - D. Telophase I
5. How many daughter cells are produced at the end of meiosis?
 - A. Two
 - B. Three
 - C. Four
 - D. Six
6. What type of chromosomes are the same length and carry genes controlling the same inherited characters?
 - A. Sister chromatids
 - B. Homologous chromosomes
 - C. Sex chromosomes
 - D. Autosomes
7. During which phase of meiosis do homologous chromosomes separate?
 - A. Meiosis II
 - B. Prophase I
 - C. Anaphase I
 - D. Metaphase II
8. What is the diploid number of chromosomes in human somatic cells?
 - A. 23
 - B. 46
 - C. 22
 - D. 44
9. What is the process called when homologous chromosomes pair up and exchange genetic material?
 - A. Synapsis
 - B. Mitosis
 - C. Independent assortment
 - D. Segregation
10. What is the process of producing sperm cells called?
 - A. Gametogenesis
 - B. Spermatogenesis
 - C. Oogenesis
 - D. Fertilization

Answers

1-a

6-b

2-b

7-c

3-c

8-b

4-a

9-a

5-c

10-b