





CHAPTER 5: CELL DIVISION



Mitosis

- 1. When is the DNA of a cell replicated?
 - A Prophase
 - **B** Anaphase
 - **C** Interphase
 - **D** Metaphase
- **2.** Which of the following are stages of mitosis?
 - I Interphase
 - II Prophase
 - III Anaphase
 - IV Telophase
 - **A** I, II and III
 - **B** I, II and IV
 - C II, III and IV
 - **D** I. III and IV
- **3.** The following information is about prophase of mitosis.

In prophase, the nuclear membrane of the cell disappears.

The information is...

- A false; it occurs during late interphase.
- **B** false; it is not associated with prophase.
- C true, and it occurs during late prophase.
- **D** true, and it occurs during early prophase.
- **4.** Which of the following about mitosis is **true**?
 - I Following telophase, the nucleolus reappears
 - II During late metaphase, the centromeres divide
 - III During interphase there is little cellular activity
 - IV The chromosomes shorten and thicken during prophase
 - A I and III
 - **B** I and IV
 - C II and III
 - **D** II and IV

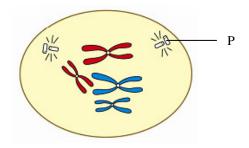
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- **5.** Which of the following gives the correct chronological order of mitosis?
 - A Metaphase, anaphase, telophase, prophase
 - **B** Prophase, metaphase, anaphase, telophase
 - C Anaphase, prophase, metaphase, telophase
 - **D** Interphase, prophase, metaphase, anaphase, telophase

Questions 6 and 7 refer to the diagram shown below.

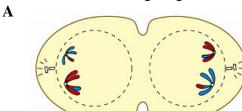


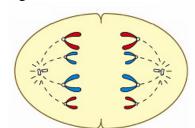
- **6.** What is the function of the part labelled P?
 - **A** For DNA replication
 - **B** To cause cytokinesis
 - C To hold the two daughter chromatids together at the centromere
 - **D** To produce spindle fibres to guide the chromosomes to the opposite poles

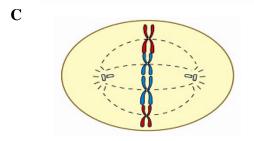
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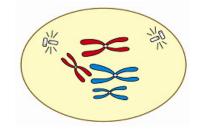
D

- 7. Which of the following concerning the cell shown in the above diagram are true?
 - I There are eight chromatids
 - II There are four chromosomes
 - III There are eight chromosomes
 - IV The cell is in metaphase of mitosis
 - A I, II and III
 - **B** I, II and IV
 - C II, III and IV
 - **D** I, III and IV
- **8.** Which of the following diagrams does **not** show a stage of mitosis?









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