

**Quiz 2: Introduction to Biology**  
Monsoon 2025

Total marks: 14

Duration: 30 min

1. Why Q-cycle occur? [1 mark]
2. Label the following events with the correct phase: a) Chromosomes condense, b) Spindle fibers attach to kinetochores, c) Sister chromatids separate, d) Nuclear envelope reforms. [2 marks]
3. What is the final electron acceptor in plants during photosynthesis. [1 mark]
4. What is cellular quiescence? [1 mark]
5. How do checkpoints control cell cycle progression? [2 marks]
6. If the inner mitochondrial membrane becomes permeable to protons, what will happen? [1 mark]
7. What ensures that DNA is replicated only once per cycle? [2 marks]
8. Explain why the TCA cycle depends on oxidative phosphorylation. [2 marks]
9. How do Cdk regulate the APC/C activation? [2 marks]