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Level: HL IB in Biology

Subject: Biology

Topic: IB HL Biology

Type: Mark Scheme

2002



1583

All International Baccalaureate IB Topic Questions HL Biology

BIOLOGY

HL - IB

Key skills

Answer 1

The correct answer is D.

ATP is required to detach the cross-bridges between the actin and the myosin. After death, no more ATP will be released through respiration so ATP stores run out and cross-bridges cannot be broken.

Option A is incorrect as the change in body temperature occurs due to the cells no longer respiring and generating ATP.

Option B is incorrect as the peak of rigor mortis is not at 12 hours.

Option C is incorrect as the slight increase in temperature 36 hours after death is due to decomposition; the microorganisms responsible for decomposition are respiring and generating heat of their own.