



## EXAM PAPERS PRACTICE

Boost your performance and confidence with these topic-based exam questions

Practice questions created by actual examiners and assessment experts

Detailed mark scheme

Suitable for all boards

Designed to test your ability and thoroughly prepare you

Level: HL IB in Biology

Subject: Biology

Topic: IB HL Biology

Type: Mark Scheme

2002

XVIII

1583

All International Baccalaureate IB Topic Questions HL Biology

---

**BIOLOGY**

**HL - IB**

Key skills

---

### Answer 1

The correct answer is C. The stem cells that remain in tissues of the body are adult stem cells that can only develop into the specialised cells that make up the tissue type in which they are found.

### Answer 2

The correct answer is D because the surface area: volume ratio of the cell gets smaller as the cell gets larger. This limits the efficiency of exchange across the membrane, which cannot increase quickly enough to keep up with the increasing metabolic requirements of the cell

A is incorrect because although larger cells do take longer to replicate this is not a factor that is directly affecting the evolution of bacteria.

B is incorrect because the structure of the cell wall does not limit the size of the bacterial cell.

C is incorrect because larger bacterial cells would be capable of movement and so this is not a factor that is directly affecting the evolution of bacteria.