

**GCSE Biology B (Twenty First Century Science)**  
**J257/01** Breadth in Biology (Foundation)

**Question Set 26**

Multiple Choice Questions

1. (a) Insulin controls the blood sugar level in the human body.

Complete the sentences to describe how insulin controls blood sugar levels.

Use words from the list.

You can use each word once, more than once, or not at all.

**high   kidney   less   low   more   pancreas**

When blood sugar levels are ....., insulin is released from the .....

The insulin causes cells to take up..... sugar.

[3]

(b) Insulin is an example of a hormone released by the endocrine system in the human body.

For each statement decide if it is a **true** or **false** description of hormonal control.

Tick (✓) **one** box in each row.

Statement about hormonal control	True	False
Effects can be long-lasting.		
Hormones are transported by the blood.		
Target cells have specific receptors.		
Hormones are usually fast-acting.		
Hormones are secreted by glands.		

[2]

(c) People with Type 1 diabetes cannot make enough insulin.

Scientists think stem cells could be used to enable the pancreas to produce insulin again.

What **two** properties do stem cells have that make this possible?

[2]

**Total Marks for Question Set 26: 7**

---

# OCR

Oxford Cambridge and RSA

## **Copyright Information**

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website ([www.ocr.org.uk](http://www.ocr.org.uk)) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact The OCR Copyright Team, The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge