

AQA, OCR, Edexcel

A Level

A Level Biology

**Stimuli and Response in Plants
Answers**

Name:

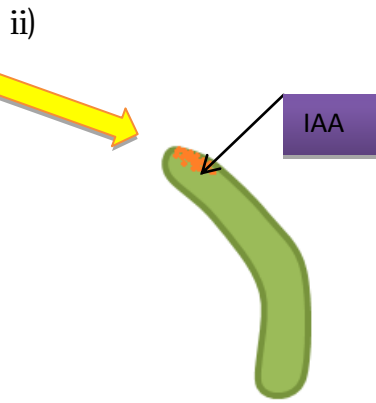
M M E

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Total Marks: /16

The Nervous System

Answer	Marks
<p>1.</p> <p>a)</p> <p>i) Plants growth response to an external stimulus / growth movement</p> <p>ii) <u>A: Shoots:</u> Positive phototropism Negative geotropism</p> <p><u>B: Roots:</u> Positive geotropism</p> <p>iii) Growth factors</p> <p>b)</p> <p>i) Vertical growth is dominant over lateral growth</p> <p>ii) – produced in shoot tip - diffuses down shoot -unequally distributed to shaded side - causes cell elongation -plant bends towards the light.</p>	<p>1 mark</p> <p>4 marks</p> <p>1 marks</p> <p>1 mark</p> <p>4 marks</p>
<p>c)</p> <p>i) In the phloem</p>	<p>1 mark</p>



2 marks

iii) IAA moves to the shaded part of the plant. Cells elongate where the IAA is and cause it to bend towards the light source

2 marks