OCR GCSE 21ST CENTURY BIOLOGY B · J257

BIOLOGY



MARK SCHEME

B5.3 HOW DO HORMONES CONTROL RESPONSES IN THE HUMAN BODY? (FOUNDATION)

SCORE	PERCENTAGE
/6	%

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Question			Answer/Indicative content	Marks	Guidance
1			**Level 3 (5-6 marks)** States several features of both systems and comparison is clear. Quality of written communication does not impede communication of the science at this level **Level 2 (3-4 marks)** States some features of both systems Quality of written communication partly impedes communication of the science at this level **Level 1 (1-2 marks)** States some features of either system. Quality of written communication impedes communication of the science at this level **Level 0 (0 marks)** Insufficient or irrelevant science. Answer not worthy of credit **Total**	6 **6**	**This question is targeted at grades up to EIndicat** • receptor/brain • electrical (impulses) • fast (response) • neurones • short lived (response) **Endocrine system features** • produced by a gland • chemical • slow response • (transported) in the blood • response lasts a long time **Example of comparison - 6 marks at level 3.** The nervous system has a fast response whereas the hormonal system is slow. The nervous system uses neurones. **Allow** any evidence of direct comparison e.g. use of “er” or but / whereas etc. **Examiner's Comments** Marks were readily available for comparisons between nervous and hormonal systems but many candidates were not able to make explicit comparisons so failed to score the highest marks. Some features of the two systems were credited at the lower levels. Weaker candidates referred to reflexes or emotions.

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