The Nervous system

Question Paper

| Level | GCSE |
|---------------------|---------------------------|
| Subject | Biology (Gateway Science) |
| Exam Board | OCR |
| Topic | Organism Level Systems |
| Sub-Topic Sub-Topic | The Nervous system |
| Booklet | Question Paper |

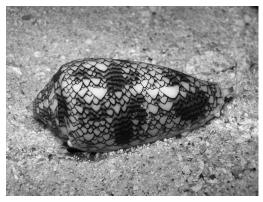
Time Allowed: 15 minutes

Score: /12

Percentage: /100

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Conus magus is a large tropical sea snail.



| (a) | The sea snail feeds on fish. |
|-----|---|
| | When it detects a fish it fires a hook into it. |
| | The hook contains a powerful poison which paralyses the fish. |
| | The poison stops the release of neurotransmitters. |
| | Explain how this paralyses the fish. |
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| | [2 |
| (b) | Scientists are investigating the poison produced by the snail. |
| | They think that it could be used as a painkiller in humans. |
| | Describe how a double-blind trial would be designed to see if the poison works. |
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| | |
| | [2 |

[Total: 4]

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2 Look at the picture of a prescription drug with the brand name Deflex.



(a) Emma has difficulty sleeping.

(b)

Her doctor prescribes Deflex.

Deflex is a drug which affects the nervous system.

Suggest and explain how Deflex affects the nervous system to help Emma sleep.

| The quality of written communication will be assessed in your answer to this question. |
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| The quality of William communication will be accepted in your allener to time queetion. |
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| [6] |
| Deflex does not work if Emma drinks coffee. |
| Suggest why. |
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| [2] |