**Q 2013 7**

1. (a) Distinguish between the terms *habitat* and *ecosystem* by writing a sentence about each.
   1. Habitat.
   2. Ecosystem.
2. Answer the following questions in relation to a **named** ecosystem which you have investigated.
   1. How did you investigate a **named** abiotic factor, other than temperature or pH?
   2. How were you able to identify the animals that you found in the ecosystem?
   3. When conducting a quantitative survey of plants, how did you ensure that your sample was random?
   4. In the case of a **named** animal **and** a **named** plant give an example of an adaptation to its habitat that you observed.
   5. As part of your study of your selected ecosystem you constructed a pyramid of numbers. Name the species that occupied the top of your pyramid.
   6. What is the main prey of the species referred to in part (v)

**MS 2013 7**

|  |  |
| --- | --- |
| **7.** (a) (i) Where an organism (or plant and animal) lives  (ii) Organisms (interacting) with their environment | **3**  **3** |
| 1. (i) Factor   How investigated   * 1. Key **or** (guide) book **or** illustrations   2. Method described must demonstrate randomness   3. Named animal + adaptation Named plant + adaptation   4. Named (species) of carnivore **or** of omnivore **or** of parasite   5. Matching named prey | **3**  **3**  **3**  **3**  **3**  **3**  **3**  **3** |

**Q 2008 7**

(a) (i) What is a habitat?. (ii) What is an ecosystem?

1. Answer the following questions by reference to a named ecosystem that you have investigated.

Name of ecosystem

* 1. List **three** abiotic factors that you investigated.
  2. For each of the three abiotic factors that you have listed describe how you carried out the investigation.

Factor In the case of a named organism give an adaptation feature that you noted. Name of organism

Adaptation feature

* 1. Briefly explain how the adaptation feature that you have given in (iii) is of benefit to the organism.

**MS 2008 7**

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| **7.** | (a) | (i)  (ii) | (place) where organism (or species) lives organisms and their environment | **3**  **3** |
|  |  |  |  |  |
|  | (b) | name of ecosystem: | | **3** |
|  |  | (i) | any three abiotic factors | **3(1)** |
|  |  | (ii) | how investigated (what used **or** how) | **3(3)** |
|  |  | (iii) | organism name matching ecosystem adaptation feature matching organism | **3**  **3** |
|  |  | (iv) | benefit | **3** |

**Q 2006 9**

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| **9.** (a) | (i)  (ii) | What is meant by the term ‘fauna’?  In ecological studies what is a key? |
|  |  |  |
| (b) | (i) | Name **five** plants in the ecosystem that you have studied. |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  | (ii) | In the space below draw up a simple key which could be used to identify each of these plants. |

1. Name **five** animals in the ecosystem that you have studied.
2. In the space below draw up a simple key which could be used to identify each of these animals.

**MS 2006 9**

|  |  |  |  |
| --- | --- | --- | --- |
| **9**. (a) | (i) | animals | **3** |
|  | (ii) | a guide to identification **or** explained | **3** |
| (b) | (i)  (ii) | five plants  reasonable attempt at key design  **[or** distinguishing features shown or stated 5(1)] | **2(2) + 3(1)**  **5** |
|  | (iii)  (iv) | five animals  reasonable attempt at key design  **[or** distinguishing features shown or stated 5(1)] | **2(2) + 3(1)**  **5** |