**Answer Key: General Integrated Science**

**Task 4: Body Systems and Reproduction**

**Part A/B**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Marks Allocation** | **Your Mark** | **%** |
| **Part A/B** | 55 |  |  |
| **Part C** | 12 |  |  |
|  |  | Total | % |

Research each organism to find out the following information:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Question | Marking criteria | Possible mark | Mark | | |
| Organism A | Organism B | Organism C |
| A description of the organism. | Organism is described in detail or  Organism is described, but only briefly | 2  1 |  |  |  |
| Description of the organisms habitat, include location, climate, food etc. | Organism’s habitat is described, including:   * Location * Climate * Food * Any other information (1 mark for each aspect described) | 4 |  |  |  |
| Describe the main things that the organism needs to survive. | Key environmental factors necessary for survival described or  One key environmental factor necessary for survival described | 2 |  |  |  |
| Explanation of how the organism reproduces. | Reproductive cycle is explained in detail, correct use of scientific terms (e.g. sperm, ova) or  Reproductive cycle is explained briefly, correct use of scientific terms (e.g. sperm, ova) or  Reproductive cycle is explained briefly, without use of scientific terms | 3  2  1 |  |  |  |
| Description of the adaptations the organism has that enable it to survive in its habitat. | Multiple adaptations described in detail or  Multiple adaptations described briefly or  Less than two adaptations described | 3  2  1 |  |  |  |
| Organisation | Notes are neat and tidy  Notes are organised and easy to follow | 2 | N/A | | |
| Total |  | 40 |  |  |  |

1. Research and then explain the circumstances that resulted in:

* the animal from **group A** becoming extinct.

**2 marks**

More than one reason given for extinction, explained in some detail

**1 mark**

One reason given for extinction, little detail in explanation

* the organism from **group B** remaining unchanged for millions of years.

**2 marks**

* More than one reason given for unchanged, explained in some detail

**1 mark**

One reason given for the organism remaining unchanged, little detail in explanation

* the organism from **group C** evolving.

**2 marks**

* More than one reason given for evolution, explained in some detail

**1 mark**

One reason given for the evolving, little detail in explanation.

**Part C**

**Validation Questions**

1. Explain whether humans had an impact for why your chosen organism from group A became extinct. Describe the impact that caused the organisms extinction. (5 marks)

1 mark – yes or no statement

3-4 marks - human impact described in detail

1-2 marks – human impact described briefly

1. Describe one adaptation that has helped your chosen organism from group B survive unchanged for so long. (3 marks)

1 mark – describes adaptation

2 marks – explains how adaptation has helped organism in detail

1 mark – attempts to explain how adaptation has helped, but gives no details

1. Give one example of a change that your chosen organism from group C underwent that helped the species continue. Explain how it helped your organism survive. (4 marks)

2 marks – gives example of a change. For both marks, need to describe the feature was before and after the change

2 marks – explains how change has helped organism in detail

1 mark – attempts to explain how change has helped, but gives no details

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Marks Allocation** | **Your Mark** | **%** |
| **Part A/B** | 46 |  |  |
| **Part C** | 12 |  |  |
|  |  | Total | % |