**Raby Homework – Science – Living Things – 29.3.23**

**Q1.**

**Pond life**

(a)     Tom is finding out about pond life. He holds a glass bowl in the water and watches the pond life underneath.



What property of the bowl allows Tom to see the pond life?

  The glass bowl is ..................................................................................

1 mark

(b)     The pictures below show some of the things Tom sees underneath the bowl.



The stickleback fish is a predator.

Tick **ONE** box to show why the stickleback fish is a predator.



|  |  |  |  |
| --- | --- | --- | --- |
| It eats plants. |   | It eats otheranimals. |   |
| It hides nearpondweed. |   | It gets eaten byother animals. |   |

1 mark

(c)     The pondweed is a producer.

Write **true** or **false** next to each of the following statements about producers.

|  |  |  |
| --- | --- | --- |
|   |   | **True** or **false**? |
|   | Producers are at the start of the food chain. | ............................. |
|   | Producers catch their food from the water. | ............................. |
|   | Producers use sunlight to make newmaterials for growth. | ............................. |

1 mark

|  |  |
| --- | --- |
| (d) |  |

**Tom**

(i)     Explain why Tom **cannot** see the micro-organisms in the water.

 ......................................................................................................

1 mark

(ii)     Why does it help to have some micro-organisms living in the pond?

 ......................................................................................................

........................................................................................................

**Q2.**

**Fish tank**

(a)     Philip’s class has some goldfish in a fish tank.
The picture below shows the fish tank.

Write **solid**, **liquid** or **gas** to complete each label on the diagram.

One has been done for you.

**plastic lid                                              inside the bubble**

**
**

1 mark

(b)     Philip needs to clean the fish tank.

He takes the fish and the plants out of the fish tank.

|  |  |
| --- | --- |
| The teacher tips the dirty water and gravel from the fish tank into a sieve. |   |

Complete the sentences below to show what happens to the gravel and the water when they are separated with the sieve.

  The gravel ......................................................................................................

The water .......................................................................................................

1 mark

(c)     There are micro-organisms in the gravel.

Write **true** or **false** next to each sentence about the micro-organisms living in the gravel.

                                                                                            **True** or **false**?

  Micro-organisms...

are small enough to live in between the gravel.                  .......................

can break down leftover fish food.                                      .......................

1 mark

(d)     The micro-organisms living in the fish tank carry out life processes.

Tick **TWO** boxes to show which **two** statements about the life processes of the living micro-organisms are true.

  In the fish tank...

|  |  |
| --- | --- |
| the micro-organisms need nutrients. |   |
| the micro-organisms do **not** grow. |   |
| the micro-organisms do **not** reproduce. |   |
| the micro-organisms can move. |   |

1 mark