



Mr Jack Thom

## Cambridge IGCSE™

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BIOLOGY

0610/02

Paper 6: Interactive to Practical

February/March 2020

1 hour

You must answer on the question paper.

No additional materials are needed.

## INSTRUCTIONS

- Answer all questions.
- Use a black or dark blue pen. You may use a soft pencil for any roughing in graphs.
- Write your name, centre number and candidate number on the front of this paper.
- Write your answers to each question in the space provided.
- Do not use an erasable pen for correction.
- Do not write on any bar codes.
- You may use a calculator.
- You should show all your working and use appropriate units.

## INFORMATION

- The total marks for this paper is 60.
- The number of marks for each question or part question is shown in brackets [ ].

This document has 12 pages. Blank pages are indicated.

## 1. (a) Beetroot is the large fleshy root of a leafy plant. The cells of beetroot contain a coloured pigment. This pigment may leak from the cells if the cell membranes are damaged.

A student investigated the effect of temperature on the leakage of pigment from beetroot cells.

**Step 1** Cylinders of varying length were cut from a beetroot. The student was provided with two of the beetroot cylinders. The student cut both cylinders to 3.0 cm in length.

**Step 2** The student labelled one test-tube C and another test-tube H.

**Step 3** The student put some cold water into test-tube C and some hot water into test-tube H.

**Step 4** The student measured the temperature of the water in test-tube C and in test-tube H.

Sections of the thermometers are shown in Fig. 1.1.



Fig. 1.1

**Step 5** The student put one beetroot cylinder into test-tube C and one beetroot cylinder into test-tube H. A stopper was placed in each test-tube.

**Step 6** The student waited for 10 minutes.

**Step 7** After 10 minutes the student shook both test-tubes.

**Step 8** The student observed the colour of the liquid in both test-tubes.

# June 14 62 Mark Scheme Biology Paper 6

**Gareth Millward**



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