

CAMBRIDGE INTERNATIONAL EXAMINATIONS  
General Certificate of Education Advanced Level

**BIOLOGY**

**9700/05**

Paper 5 Practical Test A2

May/June 2003

CONFIDENTIAL INSTRUCTIONS

Great care should be taken to ensure that any confidential information given does not reach the candidates either directly or indirectly.

**ERRATUM**

**Instructions for preparing apparatus**

Please retain the original Confidential Instructions. For question 1 the instructions (i) and (ii) should be crossed out as they are replaced by the information that follows. There is a new instruction, (vii). The remaining instructions are unchanged.

Page 2, Question 1

Replacement Instruction (i)

Three test tubes, labelled **F1**, **F2** and **F3**, in a test tube rack.

**F1** to contain  $5 \text{ cm}^3$  of distilled water.

**F2** to contain  $5 \text{ cm}^3$  of urea solution. The solution to be made by dissolving **10 g of urea in  $100 \text{ cm}^3$**  of distilled or deionised water. **F2** should not be less concentrated than this in order to avoid the possibility that the experiment might not work under examination conditions.

**F3** to contain  $5 \text{ cm}^3$  of urea solution. The solution to be made up by dissolving **2 g of urea in  $100 \text{ cm}^3$**  of distilled or deionised water. Alternatively, if there are not many candidates it may be more convenient to dilute a sample of solution **F2** (e.g. by diluting  $10 \text{ cm}^3$  of solution **F2** made up to  $50 \text{ cm}^3$  with distilled or deionised water).

Each test tube should be fitted with a bung.

Replacement Instruction (ii)

$30 \text{ cm}^3$  of urease solution, labelled **F4**, made by dissolving **two tablets (0.4 g) in  $100 \text{ cm}^3$**  of distilled or deionised water. Well before the examination, test the activity of the urease solution by mixing  $5 \text{ cm}^3$  of urease solution **F4** and  $5 \text{ cm}^3$  of urea solution **F2** in a test tube. Moist red litmus paper, held in the air in the top of the test tube with a bung, should show a colour change within 5 minutes. If necessary, increase the concentration of the urea solution **F2** to 15 g of urea in  $100 \text{ cm}^3$  of distilled or deionised water, to ensure that this happens. Please note any such changes on the back of the back cover of the script whose name appears first on the attendance register.

New Instruction (vii)

*Information required from the teacher present:*

**The teacher present in the examination room at the start of the test should carry out question 1 (a) (i) and (ii) and enter their results on a spare copy of the examination paper, clearly marked 'Teacher's Results' and showing the Centre Number. This should be returned with the scripts.**

