	Centre Number	Candidate Number
Candidate Name		

International General Certificate of Secondary Education UNIVERSITY OF CAMBRIDGE LOCAL EXAMINATIONS SYNDICATE BIOLOGY 0610/5

PAPER 5 Practical Test

OCTOBER/NOVEMBER SESSION 2001

1 hour

Candidates answer on the question paper. Additional materials: As listed in Instructions to Supervisors

TIME 1 hour

INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces at the top of this page. Answer **all** questions.

Write your answers in the spaces provided on the question paper.

Use a sharp pencil for your drawings. Coloured pencils or crayons should not be used.

INFORMATION FOR CANDIDATES

The intended number of marks is given in brackets [] at the end of each question or part question.

FOR EXAMINER'S USE	
1	
2	
3	
TOTAL	

- You are provided with a slice of potato tuber and two liquids, **A** and **B**, in labelled tubes. On the surface provided, cut two strips of potato, at least 40 mm long and approximately 5 mm wide. Place one strip in each of the liquids **A** and **B**. Leave the strips, covered by the liquids, for **at least 20 minutes**. During the 20 minutes, continue with **(a)** and **(b)** below.
 - (a) (i) Use a dropper to remove a sample of each liquid, **A** and **B**, from the tubes containing the potato strips. Carry out a Benedict's test on each sample. Complete the table below.

liquid		observation	conclusion
A			
В			[4
	(ii)	Describe how you carried out the test.	
			[3
(b)	The	cells of a potato contain starch.	
	/:\		
	(i)	Describe how you would test a piece of a porobservation you would expect to make.	tato for starch, and state wha
	(1)		
	(1)	observation you would expect to make.	
	(i) (ii)	observation you would expect to make. test	
	Ť	observation you would expect to make. test	[2
	Ť	observation you would expect to make. test	[2

(c) After the 20 minutes, remove both strips of potato from the liquids. Use your fingers to feel the surface and the stiffness of the strips. Complete the table below to describe the results for the strip in liquid **A** and in liquid **B**.

liquid	feel of surface	stiffness
Α		
В		[4]
	Use your conclusions from (a) to explain strips.	your observations about the stiffness of the

[Total: 20]

2	You ar	e provided with	specimen	W1.
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(a)	(i)	Describe one visible feature of W1 that is a characteristic of both fish and reptiles, but not of amphibians or mammals.
		[1]
	(ii)	List three other visible features of W1 that indicate that it is a fish.
		1
		2
		3[3]
(b)	Plac	ce W1 on its side. Lift the operculum (gill cover) so that you can see the gills.
	(i)	Suggest one function of the operculum.
		[1]
	(ii)	In the space below, make a large, labelled drawing of the head of the fish, to include the mouth and operculum.

[7]

[Total : 12]

	leaf.	trance with reference to the internal structure
(ii)		ernal leaf structure be an advantage to the pla
(iii)	Complete the table below to dupper and lower surfaces of W2	lescribe two other visible differences betwee 2.
	upper surface of W2	lower surface of W2
(b) Co	nplete the table below to describ	e three visible differences between W2 and W
	W2	W3

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SUPERVISOR'S REPORT

*The Supervisor or Teacher responsible for the subject is asked to answer the following questions.

Name (in block capitals)
Signed
The preparation of the practical examination has been carried out so as to fully maintain the security of the examination.
Please describe the visible differences, apart from colour, between upper and lower surfaces of W2 .
Please identify W2 .
Please state any other information that is likely to assist the Examiner, especially if this cannot readily be discovered from the answers.
Did the candidate suffer any accidents with apparatus or materials? If so, give brief details.
Did the candidate experience any difficulty during the examination as a result of faulty material? If so, give brief details.
Was any difficulty experienced in providing the necessary material? If so, give brief details.

*Information that applies to all candidates need be given only once.

N.B. If scripts are required by CIE to be despatched in more than one envelope, it is essential that a copy of the relevant Supervisor's Results (when requested), the Supervisor's Report and the appropriate seating plan are sent inside **each envelope**.