	(6)		Centre Number		Candidate Number							
Candidate Name		<u>-</u> -					4 (0)				e 'S.	ja.

EXAMINATIONS COUNCIL OF ZAMBIA

Examination for School Certificate Ordinary Level

Agricultural Science

5037/3

Paper 3 Practical Test

Candidates answer on the question paper

Additional materials
As listed in instructions to supervisors.

Time 1 hour 30 minutes

Instructions to Candidates

Write your **name, centre number and candidate number** in the spaces at the top of this page.

There are four (4) questions in this paper. Answer all questions.

You should show the essential steps in any calculation. Record all experimental results and observations in the spaces provided on the question paper.

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

Information for Candidates

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

Cell phones are not allowed in the examination room.

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Answer all questions

Question 1

(a) You are provided with AS1 in a Petri dish.

AS1 is a stock feed.

Carry out the test for **starch** and **proteins** to determine its nutritional value. Use half a spatula for each of the required tests.

Write your methods, observations and conclusions in the table below.

Test	Method	Observation	Conclusion
Starch		25.85.55.484	
	The second second		
	A Page 17 - Earling and a second		
			V.
	a la constitución de la constitu		
Dustois			
Protein			are a significant
		<i>y</i>	x 2890, 2.30
		Application and a second of the	The state by the last
		NOTE OF STREET STATES	A PARKETS N. A.
			100 100-100
			and the second

	The second secon	of a surger of the market delegated	
			[8]
(b)	State the functions of the nutrient present in	n AS1 to livestock.	
			[2]
		[Total: 10 ma	rksl

Question 2

You are provided with AS2.

(a) (i) Draw a large labelled diagram of **AS2** in the tray below to show its position during storage.



			[3]
	(ii)	Why should a farmer ensure that AS2 is placed in that position during	
		storage?	
	1125		
			[3]
(b)		nine AS2 and give three visible qualities a farmer should consider in to select it for incubation.	
			[3]
(c)	Give	one reason why AS2 is turned during incubation.	
Tall	en ()		[1]
	******	[Total: 10 ma	

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Question 3

AS3	is a st	ructure used in Agriculture.	
(a)	Wha	t is the identity of AS3?	
		rel in ald in Start man kine er i held in the factor of th	[1]
(b)	(i)	What is the main product made in the structure AS3 ?	
			[1]
	(ii)	State two uses of the product you have mentioned in b(i) above.	
			[2]
(c)	(i)	What is the by-product made during the production of the main product?	
			[1]
	(ii)	State three ways in which the by-product is used in industry.	
		15 Lavor Decorie Text (F. S. F. SSLLL, C.) From the Law Law Service (F. S. C. C.)	
			[3]
(d)	(i)	Name the organism which produces the products named in (b)(i) and (c) (i) above.	
	AND CARD		[1]
1000	(ii)	What is the other importance of the organism in agriculture?	
	1		[1]
		[Total: 10 mai	rks]

Question 4

You are provided with specimens AS4 and AS5 which are equipment used on livestock.

(a)	(i)	Identify the specimens AS4 and AS5 .
	ente (C	AS4
, j.,		AS5[1
	(ii)	What operations are AS4 and AS5 used for on a farm?
		AS4[1
		AS5[1
	(iii)	Give one reason in each case why the operation you mentioned in (a) (ii) above should be carried out on livestock.
		AS4 [1
		AS5[1
(b)		two other methods which could be used for the same purpose in place of and AS5 .
	A54	
		(ii)[1
	AS5	(i)[1
	i Konvey	(ii)[1
		[Total: 10 marks