

ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Advanced Level

ANIMAL SCIENCE

6028/3

PAPER 3 Practical Test

SPECIMEN PAPER

2 hours 30 minutes

Additional materials:

Answer paper,

Graph paper,

As listed in Instructions to Supervisors,

Scientific Calculator.

TIME 2 hours 30 minutes + 10 minutes preparation time.

INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the spaces at the top of this page and on every page of your answer paper.

This paper consists of **three** questions. Answer **all** questions. Marks are given in brackets [] at the end of each question.

You are advised to spend the first 10 minutes carefully reading through the whole paper before answering any questions. Spend at least 40 minutes on each question. All writing must be in blue or black ink except for diagrams which must be drawn in pencil.

You are reminded of the need for good English and clear presentation in your answers.

FOR EXAMINER'S USE		
1		
2		
3		
TOTAL		

This question paper consists of 5 printed pages and 3 blank pages.

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You are provided with a slide AS1. Use a bio viewer to observe the illustration on

1

AS1.

Relat	e the different parts of specimen A Part of Specimen AS1 (i) (ii) (iii) (iv) (v)	S1 to their function. Function	
Relat	Part of Specimen AS1 (i) (ii) (iii)		
Relat	Part of Specimen AS1 (i) (ii)		
Relat	Part of Specimen AS1 (i)		
Relat	Part of Specimen AS1		
Relat			
Desci	ribe the activities that may take pla	ce in specimen AS1.	
	Z		[2
	Y		[2
	X		[2
	W		[2
	Component V	Function	[2
	Identify and describe one function of each of the labelled components in AS1 .		
(b)			

- You are required to carry out food test on AS2, AS3 and AS4 using reagents R1, R2, R3 and R4 respectively. Identify the types of food elements using the reagents.
 - (a) Record results in the table below:

Sample	Method	Observation	Class of Food
AS2			
AS3			
AS4			

(i) _		
(ii) _		
(iii) _		
-	he importance of mixing foods rich in eding livestock.	n carbohydrates and pa
-	_	n carbohydrates and p
-	_	n carbohydrates and p

Suppose one of the food samples is a carbohydrate rich food with 10% CP and the other one is protein rich with a 35% CP. Using the Pearson Square method, calculate, the mixing ratio to produce a feed with 20% CP.

[3]

(e)	Expla livest	ain the disadvantages of feeding a solely carbohydrate rich feed to ock.	
	_	ented with the following materials which constitute the bulk of estock feeds.	
(a)	(i)	Identify the materials labelled $\mathbf{AS5} - \mathbf{AS10}$ by their common nan	nes
		AS5	
		AS6	
		AS7	
		AS8	
		AS9	
		AS10	
(b)	As ar	a animal nutritionist suggest three broad classes of these plants.	
	(i)		
	(ii)		
	(iii)_		
(c)	Why	are these plants recommended to ruminant animals?	

(d)	(i) Discuss the digestion process of feeds AS5 to AS10 .	
		[7]
(ii)	Discuss the problems associated with feeding ruminant animals with AS5 and AS6 only.	,
		[2]

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