

EXAMINATIONS COUNCIL OF ESWATINI Eswatini General Certificate of Secondary Education

CANDIDATE NAME		
CENTRE NUMBER	CANDIDATE NUMBER	
AGRICULTURE		6882/01
Paper 1	Oc	tober/November 2020 1 hour
Additional Material: Calculator		
Candidates answer:		
Section A: Multiple Choice on the	Question Paper.	
Section B: Short objective question	ns on the Question Paper.	
READ THESE INSTRUCTIONS FIRST		
Write your Centre Number, Candidate Number an Write in blue or black pen.	nd Name on all the work you hand in.	
You may use a soft pencil for any diagrams or gra Do not use staples, paper clips, glue or correction		
Answer all questions.		
At the end of the examination, fasten all your work The number of marks is given in brackets [] at the		question.
	For Examine	r's Use
	Multiple Choice	
	Short Answers	
	Total Marks	

This document consists of 10 printed pages and 2 blank pages.

Section A: Multiple Choice

Answer all questions in this section (20 Marks)

For each of the following questions, place the appropriate letter in the box to indicate the correct answer.

1	Wha	at is the contribution of Eswatini agriculture to world trade?	
	A B C D	food and clothing foreign exchange provide employment skilled labour	
2		RMEX is used for deworming livestock. The dosage for WORMEX is 1ml 4kg live weight.	
	Hov	w much WORMEX is needed to deworm a 30kg goat?	
	A B C D	2.5 ml 4.0 ml 7.5 ml 30 ml	
3	Whi	ich term describes a herbicide application carried out after germination?	
	A B C D	biological spray post-emergence pre-emergence seed dressing	
4	Hov	v can farmers prevent denitrification occurring in the soil?	
	A B C D	applying excessive synthetic fertilisers applying excessive water digging the soil frequently practising intercropping	
5	Whi	ich term describes a farming situation where outcomes might be disturbed?	
	A B C D	demand risk supply uncertainty	

6 Fig. 6.1 shows the soil textural triangle.

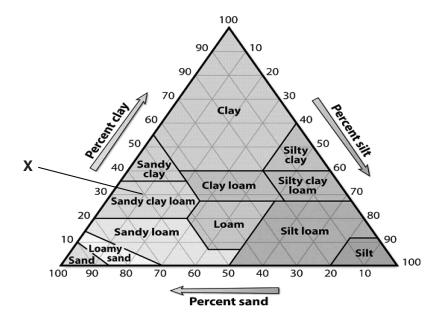


Fig. 6.1

What are the proportions of soil in point X on Fig. 6.1?

- A 10% sand, 60% clay, 30% silt
- **B** 60% sand, 40% clay, 10% silt
- C 70% sand, 20% clay, 10% silt
- **D** 90% sand, 0% clay, 10% silt

7	7	Which	enzyme	coagulates	milk in	vound	animals'	7
- 1		VVIIICII	CHZVIIIC	Cuadulates	THE ZILLE	vouriu	ammaa	

- A amylase
- **B** pepsin
- **C** rennin
- **D** trypsin

8 What	t term	describes	the	period	ΟŤ	raising	chicks	up '	to to	our	weeks	old	1
---------------	--------	-----------	-----	--------	----	---------	--------	------	-------	-----	-------	-----	---

- A adult period
- **B** brooding period
- **C** growing period
- **D** incubation period

9 What chemical can be used to neutralise soil with a pH of 4.8?

- A Ammonium Sulphate
- **B** Barium Sulphate
- C Calcium Carbonate
- **D** Magnesium Chloride

10	Wh	ich pest destroys the endosperm of grain crops?	
	A B C D	aphid cutworm grasshopper weevil	
11	Wh	ich part of the leaf structure contains most chlorophyll?	
	A B C D	epidermis mesophyll palisade stomata	
12	Wh	ich of the following livestock is a ruminant?	
	A B C D	chicken cow pig rabbit	
13	Wh	ich farming system is best suited for a small scale farmer using low inputs?	
	A B C D	intensive farming intercropping organic farming permaculture	
14	Wh	at indicates a deficiency of potassium in crop plants?	
	A B C D	large dark green leaves orange brown leaves purple stunted leaves white transparent leaves	
15		ich term describes the movement of water from a dilute solution to a more centrated solution through a semi permeable membrane?	
	A B C D	absorption active transport diffusion osmosis	
16	Wh	ich system involves growing crops with livestock on the same farm?	
	A B C D	crop rotation intercropping mixed cropping mixed farming	

		5	
17	Whi	ich breeding system maintains pure breeds in the short term?	
	A B C D	cross breeding hybridisation inbreeding selection	
18	Whi	ich plant cells carry water up the stem?	
	A B C D	guard cells phloem cells spongy cells xylem cells	
19	Whi	ich ration is given to a lactating cow?	
	A B C D	cereal ration dry ration maintenance ration production ration	
20	Whi	ich type of soil is easily leached?	
	A B C D	clay loam sand silt	[20 Marks]

Section B: Short Response Questions

Answer all questions in this section (40 Marks)

[1]
Which soil constituent provides food for micro-organisms?
[1]
What type of soil structure has suitable aggregates for plant growth?
[1]
Which plant nutrient is supplied by bone meal?
[1]
What is the process by which carbon dioxide enters the plant leaves?
[1]
How does lack of water affect the rate of photosynthesis?[1]
Why is it essential for rabbits to eat their soft pellets?[1]
What term describes the feed with correct proportions of nutrients for livestock?
[1]
Which mineral is essential for high milk production?
[1]
What type of farm record list details of 'feed conversion ratios'?
[1]

31 Fig. 31.1 shows an equipment used in pest control.



Fig. 31.1

	(1)	Name the part labelled Y.	
			[1]
	(ii)	What is the function of the part labelled X on the equipment?	
			[1]
32	Give	e two soil conditions that could affect nutrient availability to plants.	
	(i)		[1]
	(ii)		[1]
33	Wha	at practice is used to prevent viral disease in livestock?	
			1]
2/1	Giv	e any one property of concrete building blocks.	
7	aivi		
		[.1]
35	Wha	at term describes the gradual decline of productive land?	
			11
		•	

36	Name two ways by which soil could be harmed by high stocking rates.	
	(i)	[1]
	(ii)	[1]
37	State any two factors to be considered when selecting the site for a livestock building.	
	(i)	
	(ii)	[2]
38	Which part of a flower contains ovules?	
		[1]
39	What term describes large scale farming for sale and export?	
		[1]
40	Name any one notifiable disease for:	
	(i) poultry	
		[1]
	(ii) cattle	[1]
		[' ']
41	Which type of weeds complete their life cycle in a single year?	
		[1]
42	What type of pathogen causes blight in potatoes?	
		[1]
43	Which equipment can be used for castration?	
		[1]
44	What term describes an organism that causes ecological or economic harm in a new environment where it is not native?	
		[1]

45	Which term describes the difference between farm assets and liabilities?
	[1]
46	Which plants process moves carbohydrates in the phloem?
	[1]
47	What type of pollination involves the transfer of pollen grains from one flower to another in the same plant?
	[1]
48	Give the general term for material placed on the soil surface to reduce water loss.
	[1]
49	External parasites cause animal discomfort and loss of condition.
	State two other effects of external parasites.
	(i)
	[1]
	(ii)[1]
	[']
50	Which structure found in the nucleus of cells carries genetic information in form of genes?
	[1]
51	Which term describe a group of farm equipment which requires greater power to operate?
	[1]

52 Fig. **52.1** shows a type of erosion.



Fig. 52.1

(i)	Name the type of erosion shown in Fig. 52.1.
	[1]
(ii)	Suggest two methods of reducing the erosion in Fig. 52.1.
	[2]
	[40 Marks]

BLANK PAGE

BLANK PAGE

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (ECESWA) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

© ECESWA 2020 6882/01/O/N/2020