

EXAMINATIONS COUNCIL OF ESWATINI Eswatini General Certificate of Secondary Education

CANDIDATE NAME				
CENTRE NUMBER		ANDIDATE UMBER		
AGRICULTURE				6882/01
Paper 1		Oc	tober/Nove	ember 2022
				1 hour
Additional Material: Calculator				
Candidates answer:				
Section A: Multiple Choice on the	Question Paper.			
Section B: Short Answers on the C	Question Paper.			
READ THESE INSTRUCTIONS FIRST				
Write your Name, Centre Number and Candidate Write in dark blue or black pen.	Number on all the work	c 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		or part of the	question.	
		For Examine	r's Use	
	Multiple Choic	e		
	Short Answers	3		
	Total Marks			

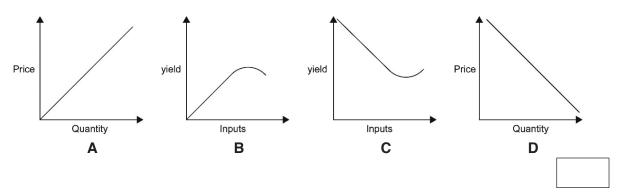
This document consists of 9 printed pages and 3 blank pages.

Section A: Multiple Choice

Answer all questions in this section (20 marks).

1	Wh	at controls gaseous exchange in a plant leaf?	
	A B C D	chloroplast cuticle guard cells xylem	
2		at term describes the ability of the soil to provide enough nutrients for plant wth?	
	A B C D	soil erosion soil fertility soil structure soil texture	
3	Wh	ich legislation ensures proper management of bio-diversity in Eswatini?	
	A B C D	agricultural policy environmental policy forest policy national policy	
4	Wh	ich marketing function adds value to milk?	
	A B C D	advertising financing grading processing	
5		at could be a direct economic effect of <i>Solanum mauritianum</i> (bugweed) to the ernment of Eswatini?	
	A B C D	contaminates produce costly to control dries water sources reduces arable land	

6 Which graph illustrates the law of diminishing returns?



- 7 How does an increase in rainfall over several years influence soil pH?
 - A soil pH increases
 - B soil pH is maintained
 - C soil pH neutralises
 - **D** soil pH reduces
- 8 What term describes an organism that depends on another for survival?
 - A host
 - **B** parasite
 - **C** pathogen
 - **D** pest
- **9** What prevents wave erosion on a dam?
 - A concrete slab
 - B grass cover
 - C overflow pipe
 - **D** rip rap
- 10 Which water source is the safest to drink?
 - A borehole
 - **B** dam
 - C spring
 - **D** well
- 11 Which is a sure way of preventing Newcastle disease in poultry?
 - A footbath usage
 - **B** good sanitation
 - C manage litter
 - D vaccinate birds

12 Table 12.1 shows a farmer's financial statement.

Table 12.1

Income	Expenses
7.5 tonnes of maize @ E1000.00/ton	- Chemicals @ E2000.00
	- Permanent labour @ E1500.00
	- Seeds @ E1000.00

What is the farmer's total variable costs?

- **A** E1500.00
- **B** E3000.00
- **C** E4500.00
- **D** E7500.00
- 13 Which record measures profitability of a livestock enterprise?
 - A breeding record
 - **B** diary record
 - **C** financial record
 - **D** production record
- 14 Fig. 14.1 shows a maize seed.

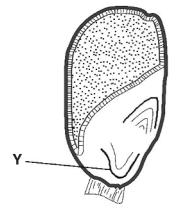


Fig. 14.1

What is the function of part Y?

- A to develop into leaves
- B to develop into roots
- **C** to protect the plumule
- **D** to protect the radicle

15	Wha	at is the correct sequence for these environmental processes?	
	A B C D	climate change, greenhouse effect, global warming global warming, greenhouse effect, climate change global warming, climate change, greenhouse effect greenhouse effect, global warming, climate change	
16	Whi	ich equipment is used in the artificial pollination of plants?	
	A B C D	long needle plastic straw small syringe soft brush	
17	Whi	ch acid is produced during silage making?	
	A B C D	carbonic acid hydrochloric acid lactic acid sulphuric acid	
18	Wha	at type of farming involves high use of inputs per unit area?	
	A B C D	arable farming extensive farming intensive farming organic farming	
19	Whi	ich term describes the proportion of sand, silt, and clay in a soil?	
	A B C D	fertility profile soil pH texture	
20		at process involves the movement of mineral ions against their concentration dient?	
	A B C D	active transport diffusion osmosis translocation	

Section B: Short Objective Questions

Answer all questions in this section (40 marks).

21	Which developmental stage of agriculture is characterised by leaving infertile land to cultivate a new area?	[1]
22	What type of weathering is oxidation?	
23	Give an example of a creeping cultivated pasture grass.	
24	Which vascular tissue conducts water and mineral salts up the plant?	[1]
25	Which term describes the fusion of a male and a female gametes?	[1]
26	Which general term describes chemicals that are used to control weeds?	[1]
27	Which disease of tomato plants can be identified by cutting a length of stem and recording the release of a milky substance when it is placed in water?	[1]
28	What name is given to a group of plants produced asexually?	[1]
29	Name the first milk calves get from their mother after birth?	[1]
30	Which term describes the removal of unproductive chickens from a flock?	[1]

31	(i)
	(ii)[2]
32	Which part of a knapsack sprayer controls the release of the chemical?
33	Name the posts that are placed at intervals between standard posts. [1]
34	Which soil type could be used to prevent seepage in an earth dam? [1]
35	What term describes the debts of a farm business? [1]
36	Name the equipment used for dehorning cattle. [1]
37	Which group of pests are aphids classified under?[1]
38	What name describes the state of ownership of land?[1]
39	What name is given to dried cut grass that is used for livestock feeding? [1]
40	Which term describes the growing of crops in a nutrient solution? [1]
41	Name the equipment used for tightening wire fences.

42	Which 'Act' controls the importation of GMOs into Eswatini?
	[1]
43	What name is given to an area that collects rainwater into a reservoir?
	[1]
44	Which process is responsible for the loss of water from land surfaces into the atmosphere?
	[1]
45	Name the process given to sorting agricultural products to given standards prior to packing and sending to market?
	[1]
46	What term describes mating unrelated animals of the same breed?
	[1]
47	What is the percentage of phosphorus in a 50 kg bag of 2:3:2 (35) fertiliser?
48	Name a career opportunity in the field of plant protection.
	[1]
49	Which major plant nutrient is contained in dried blood?
	[1]
50	What term describes the transfer of pollen grains from the anther to the stigma in the same plant?
	[1]
51	Which pasture management practice involves sowing of seeds to improve a pasture?
	[1]
52	What name is given to the process of giving birth in cows?
	[1]

53	Name an accessory gland that produces seminal fluid.
	[1]
54	Which chemical substances fight off infection in the body of livestock?
	[1]
55	Give any two common chicken vices.
	(i)
	(ii)[2]
56	What type of record lists all physical and monetary assets in the farm?
	[1]
57	What economic term describes the loss of potential gain when one particular alternative is chosen over the others?
	[1]
58	Give any one example of a root tuber.
	[1]

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