NAME	 STREAM
SCHOOL	

P515/1 PRINCIPLES AND PRACTICES OF AGRICULTURE Paper 1 AUGUST 2024 2 ½ Hours



UNNASE MOCK EXAMINATIONS 2024

UGANDA ADVANCED CERTIFICATE OF EDUCATION PRINCIPLES AND PRACTICES OF AGRICULTURE PAPER 1

TIME: 2 HOURS 30 MINUTES

INSTRUCTIONS TO CANDIDATES:

This paper consists of two sections A and B.

Attempt all questions in both sections A and B.

Section A: Write the letter corresponding to the correct answer in the box provided.

Section B: Write answers in the spaces provided.

FOR EXAMINER'S USE ONLY						
Questions	Marks	Examiner's Signature				
A: 1 – 30						
B: 31						
32						
33						
34						
35	·					
36						
37						
TOTAL						

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SECTION A: (30 MARKS)

1.	Which of the following common local farming practices encourages colonisation of striga weed in an area?							
	А. В.	Bush burning Late planting	g	C. D.	Mono cropping Late weeding			
2.	A han	d brace tool is	used in the constr	uction of	farm structures to	:		
	A. B. C. D.	make holes or firmly clamp	s in door handles. n the wooden parts. objects during work om wood and later		e surface.			
3.			n where a breeder se ime until it reaches		d improves for one ble levels is			
	A. B.	Independent Tandem selec	culling ction	C. D.	Index selection Mass selection			
4. short	Which distar	n of the followince ?	ing simple machines	is used	to lift heavy loads ov	ver a		
	A. B.	Inclined plane Lever		C. D.	Pulley Screws			
5.	In 2020 Mpabuka planted beans in the first season and got a profit of Shs.65,000 after investing Shs.45,000. In the second season of the same year, he planted maize and got a profit of Shs.90,000 after investing Shs.75,000. What is the overall efficiency of the farmer?							
	A.	83.3%	D 64.604	c. 72.2	% D. 60%			
6.	Gend	er parity in agi	riculture refers to:		_ 1 30 / 0			
	The sydiffered Equal Unfair their s	ystematic gath ences and soci rights, respor differences in	tering and examinati al relations. Isibilities and oppor In the treatment of m	tunities f en and w	ormation on gender or men and women. omen because of advantaged persons.			
7. plant	Which cell?	of the following	ng organelles is resp	onsible f	or protein synthesis i	n a		
	A.	Mitochondria Endoplasmic		C.	Ribosome Lysosome			

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8.	8. What is the purpose of the yoke in animal draught technology?							
	A. B. C. D.	To provide of To increase	e th comf the	e load evenly. ort to the ani animal power nimal effort.	mal	ar draught techno	logy ?	
9.	Whic	h stage of ph	otos	synthesis proc	duces	ATP and NADPH	?	
,	A. B.	Light depen	iden	t reactions. ent reactions.	C.	Electron tran Calvin cycle		
10. as	Conversion of organic matter into simple inorganic compounds is refe						rred to	
	A. B.	Composting Nitrification			C. D.	Immobilisation Mineralisation		
11.	Whic	h of the follo	wing	g is a commor	cha:	racteristic of agric	ultural mar	kets?
	A. B.	Perfect com Monopoly	peti	tion	C. D.	Imperfect comp Oligopoly	petition	
12.	Whic	h of the follo	wing	g is a principle	e of o	rganic farming?		
	A. B.			e fertilizers. soil health.	C. D.	Use of GMO's Use of artificia	pesticides	
13.	Whic	h of the follo	wing	g factors can i	ncrea	ase transpiration	ates of a pla	ant?
	A. B.	High humic Low temper	•	те	C. D.	Wind Low light inten	sity	
14.	What	t is the ideal	temj	perature rang	e for	growing most mu	shroom spec	cies ?
	A. 1	0 – 20°C	B.	20 - 30°C	C.	30 – 40°C D.	40 – 50°C	
15.	What			-		in a bee hive?		
	A. B. C. D.	To keep the	que pee p	een from laying een from esca pests. od from the h	ping.			
16.				on the quantited by a count		a particular good o	or service th	at can
	A. 7	Tariff	B.	Quota	c. s	Subsidy D.	Embargo	
17.	Whic	h of the follo	wing	g sets compris	ses of	only vector borne	crop diseas	ses?
	A. B. C.	Katte diseas Head smut,	se, c Rat		ic, pa disea		s A	

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18.	be growing in soils deficient of:							cely to		
	A. Po	otassium	B.	Phosphorous	C.	Magne	esium	D.	Calcium	
19.	Slippe	ed tendon	in cl	nicken is as a re	esult	of				
	A. B.	Iron defic Mangane	eienc	у		C. D.	Coba Iodin	ilt de le def	ficiency iciency	
20.	Which anima	ch type of concrete is best suitable for making foundation walls, floo hal houses and grain stores?						floors of		
	A. B.	Strong co				C.	Medi D.		oncrete n concrete	
21.	Whic	h water qı	uality	parameter is c	ritica	l for live	estock	cons	umption ?	
	A. B.	Turbidity Bacterial		tamination		C. D.	pH Total	diss	olved solic	is
22.		lemand fo thing that		articular item n eeded is	nainly	/ becau	se it ca	an be	used to p	roduce
	A. B.	Speculat Market d				C. D.			r demand emand	
23.	The p	process by mosomes o	which durin	ch genetic infor g meiosis is ter	matic med	n is sh as	uffled l	oetwe	en homol	ogous
	A. B.	Genetic i Gene du		nbination tion	C. D.		omosor ssing o		utation	
24.	Whic	h of the fo	llowi	ng statements	descr	ibes the	e life cy	cle o	f a bont ti	ck?
	A. B.	The larva The larva different	ı, nyı	mph and adult mph feed on th	feed o	on the s ne host	same h and th	ost. e adı	ılt feeds oı	n a
	C. D.	The larva	a, ny	mph and adult nd adult moult	feed to	from dif ne same	fferent host.	host	S.	
25.	Whic	h of the fo	llowi	ng meals fed to	pigs	has the	e highe	est pr	otein nero	entogo 2
	A. B.	Pig finish Weaner i	ning :	meal .		C. D.	Sow	meal p fee	l	cittage ?
26.	The r	ole of a st	rut p	ost in a barbed	l wire	fence i	s to:			
	A. B. C. D.	Stretch t Support Hold bar	he b the l	arbed wire in b king post. wire between or	oth d	irection	s.	her.		

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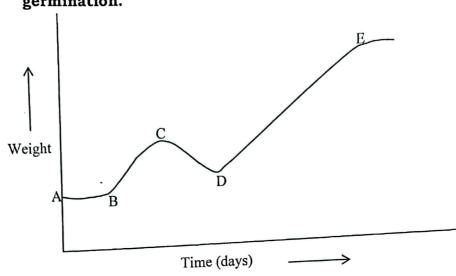
27.	27. Laying of dwarf eggs among layers is attributed to:							
,	A. B.	Malfunctioning of the isthmus. Malfunctioning of the uterus.	C.	. 1	Malfund	ctioning of the magr	num k	
28.	The	act of adding insulation to a fa	rm l	bι	uilding	with an aim to redu	ice heat	
	loss is							
	А. В.	Cladding Coating	C. D.		Glaz Weat	ing therisation		
29.	Th	production of beef and glue fro	m h	0	rns is a	n example of		
	A. B.	Supplementary products Complementary products			C. D.	Joint products Competitive produ	ıcts	
30.	Та	pping in fruit growing is						
	A. B. C. D.	the extraction of sap from the the artificial transfer of poller the removal of young buds ar the application of plant horm	n fro nd s	n h	n one fr oots fro	m a fruit tree.	ruit trees.	
		SECTION B:	(70)]	MARKS)		
31.	an improved self-pollinated crop variety involving eight pureline individ					o develop dividual marks)		
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(b)	Desc well	cribe how you can use the teabag method to develop a decomposed animal dung.	fertilizer from (4 marks)
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	•••••		
(c)	State	e four advantages associated with organic farming.	(2 marks)
	(i)		
	(ii)		
	(iii)		
	(iv)		
			• • • • • • • • • • • • • • • • • • • •

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32. The graph below shows changes in the fresh mass of the seedling during germination.



(a) Explain the changes observed above in the mass of the seed during germination. (4 mks)

••••

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(b)	State	e any four physiological events that occur between C and D .
. ,		(4 marks)
	(i)	
	(ii)	
	(iii)	
	(iv)	
(c)	Expl	ain how soil temperature influences germination in a seed. (2 marks)
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33.	(a)	Describe how good quality cheese can be produced on a farm.
		(4 marks)
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(b)	State	e four precautions to take while making cheese on a farm. (2 marks)
	(i)	
	(ii)	
	` ,	
	(iii)	***************************************
	()	
	(iv)	***************************************
	(17)	
(0)	Evrn1	
(c)		ain any four abnormalities of the udder that reduce milk yield and
quan	-	a farm. (4 marks)
	(i)	••••••
	(ii)	
	(iii)	·······
	(iv)	
34.	(a)	Define the term subsidy as used in agricultural economics.
		(2 marks)
(b)	Give	any four importances of subsidy schemes in agriculture. (4 marks)
` '	(i)	
	()	
	(ii)	
	(22)	
	(iii)	
	(111)	
	(177)	
	(iv)	
		•••••••••••••••••••••••••••••••••••••••

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(c)	Ment	tion any four hindrances to the implementation of the pernisation of agriculture (P.M.A.)	lan for (4 marks)
	(i)	***************************************	
	(ii)		
	(iii)		
	(iv)		
35.	(a)	Describe how a farmer can calibrate a planter before a	day's work. F marks)
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			••••••
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227 4	•••••		
(b)	State	e three:	
	(i)	Advantages of dibbling in crop production.	(3 marks)
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	(##1	Disa desarts and Communication of the communication	
	(ii) 	Disadvantages of dibbling in crop production.	(3 marks)
			••••••••
	•••••		••••••
		***************************************	•••••••
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	•••••							
36.	(ct)	Distinguish between lopping and pollarding. (2 mark	s)					
	•••••							
	•••••							
(b)		e any two advantages of:						
	(i)	Pollarding. (2 marks)						
		······································						
			· 					
		Coppicing (2 marks)						
(c)		Explain four factors that influence the spacing of a given crop. (4 marks)						
	(i)							
	(ii)							
			•••					
	(iii)		•••					
	(iv)		••					
	(-*)							

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37.	(a)	Explain how the following bring about soil formation in an area.			
		(i)	Salt crystal growth	(2 marks)	
	•••••	••••••			
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	•••••	• • • • • • • • • • • • • • • • • • • •			
		•••••			
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		(ii)	Abrasion	(2 marks)	
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	•••••	••••••			
	•••••				
			Exfoliation	(2 marks)	
		••••••			
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		••••••			
	Explain four factors that influence soil structure formation and				
cons	sisten	ce in a	n area.	(4 marks)	
	•••••			i marks)	
	•••••			•••••••••••••••••	
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