Name:	Centre/IndexNo
School:	Signature

P515/1
PRINCIPLES
AND PRACTICES
OF AGRICULTURE
PAPER 1
July/August 2023
2 ½ hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education PRINCIPLES AND PRACTICES OF AGRICULTURE PAPER 1

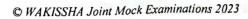
2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

- This paper consist of sections A and B
- Answer all questions in both sections.
- All answers should be written on this question paper.

FOR EXAMINER'S USE ONLY			
Question	Marks	Examiner's No./Initials	
Section A	. vo.2	loganimotico de la	
31	actibiopies -	Ag count back on a travers sa	
32 (1) (1) (1)	mest milioned the devision	like grand or or older editor.	
33	.525	Minus of the borrows s cash	
34		he market interest rates	
35	our 16 Marine would be 1991 to	tring or the Propositions of the	
36		and to lift the load by the dig	
37		AL MI	
TOTAL		No.	

Turn Over





SECTION A (30 MARKS)

Write the letter corresponding to the most correct answer in the box on the right hand side for each question.

1.	The cutting of the furrow slice during ploughing is done by;		
	A. Share		
	B. Coulter		
	C. Mould board		
	D. Land side		
2.	The nucleus in the embryo sac that fuses with the male nucleus to form a zygot	te	
۷.	in a bean plant is		
	A. Polar nucleus.	_	
	B. Antipodal.		
	C. Synergid – nucleus.	_	
	D. Egg nucleus.		
	D. Egg nucleus.		
3.	Liming in clay soil is carried out in order to		
	A. encourage soil aggregation.		
	B. discourage soil aggregation.		
	C. improve on soil pH		
	D. affect soil micro-organisms.		
4.	Which one of the following is correct about the life cycle of a red legged tick?		
	A. It's larva and nymph live on the same host.		
	B. It's larva falls twice on the ground.	٦	
	C. It's larva, nymph and adult live on different hosts.		
	D. It's larva, nymph and adult live on the same hosts.	_	
5.	Intermittent milking as a method of drying off a lactating cow can be described		
	as		
	A. milking the cow on alternate days.		
	B. abrupt break in the milking of a cow.	7	
	C. removing less milk than the usual then stop.	l	
	D. the animal is milked then given antibiotics.		
6.	Which of the following factors will most influence the decision of a financial		
	institution to lend money to a borrower?		
	A. Nature of the borrower's business.		
	B. Education level of the borrower.]	
	C. The market interest rates.		
	D. Credit worthness of the borrower.		
7.	A lever with mechanical advantages 3, lifts a load of 60 N. What will be the		
	effort used to lift the load by the machine.		
	A. 30N		
	B. 60N	1	
	C. 20N		
	D. 0.3N	1	

0.	subjected to a compression force is	when
	A. toughness.	
	B. durability. C. malleability.	
	C. malleability. D. hardness.	
9.	Which of the following processes explain how organic matter buffers soils	pH?
	A. It produces oxygen and ammonia in large qualities.	
	B. It has ability to produce both hydroxyl and hydrogen ions.	
	C. It is spongy and retain enough water. D. It is dark in colour so as to modify soil pH and temperature.	2.00
	D. It is dark in colour so as to modify soil pH and temperature.	- N
10.	por way annuage of bentum propugation is that it	
	A. causes faster growth which results in early maturity.	
	B. produces disease resistant varieties.	
	C. maintains good parental characteristics	
	D. leads to variation in plants.	
11.		
	potential?	
	A. Decrease in turgar pressure.	
	B. Increase in solute potential.	70
	C. Decrease in Osmotic potential.	The state of the s
	D. Increase in pressure potential.	
12.		
	A. changing land ownership.	
	B. improving land management and use.	- p.
	C. ensuring that everybody owns land.	
	D. controlling of land use by the government.	
13.	Which of the following statements is incorrect about immunity?	
	A. Antigens can be molecules of foreign microbes.	
	B. Antibodies are special protein.	
	C. Antibodies are produced against specific antigens.	
	D. Weakened or killed bacteria becomes artigens.	
14.	Which of the following terms refers to promotion of the rights of disadvanta	iged
	persons?	
	A. Gender equality. B. Gender main streaming.	7:
	C. Affirmative action.	1
	D. Gender equity.	
	D. Gender equity.	
15.	Absorption banks are best suited in areas which	
	A. are flat.	
	B. are experiencing frequent erosion.	
	C. have steep slope.D. have valleys.	
	T WANGSUA Link Land 1022	urn Over

16.	In a bee colony the work bees are described as	S
	A. sterile females developed from unfertiliz	
	B. fertile males developed from unfertilized	
	C. sterile males developed from unfertilized	
	D. fertile females developed from un fertiliz	
	b. Terme remaies developed from an fermiz	ed eggs.
17.	Plants growing in humid habitant conditions le	ose excess water by
	A. Transpiration.	the figure of the sales of the first
	B. Guttation.	그리 그 아이 생겼습니다 학생의 회사하였습니다.
	C. Cuticular respiration	이 전 사는 것이다. 그 이 맛이 나는 사이트를 하나라를 다
	D. Formation of a large number of lenticels.	consideration of the second
10		
18.	Determine the quantity of urea needed to supp	ly 160 kg N/ha, if urea is 40%N.
	A. 4kg/ha.	
	B. 40kg/ha.	
	C. 64kg/ha.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	D. 400kg/ha.	
19.	Which should be a Column 1.	
19.	Which elasticity of demand is represented by t	the demand curve below.
	D P	
	D.L.	
	$_{\widetilde{\omega}}$ P_2	
	Price (shs)	
	.8 P ₁	
	E 1	
	D	
		The recognition
	O	Water Programme and the state of the state o
	Quality demanded (kg)	
	A. In elastic demand.	CONTRACT OF STATE CONTRACT.
	B. Perfect elastic demand.	a single and a second stream
	C. Perfect inelastic demand.	or allocation A
•	D. Unitary demand.	
20.	One way in which air seasoning of wood is b	etter than kiln seasoning is
20.	that it,	etter than kim seasoning is
	A. requires less stacking space.	
	B. is a cheaper process.	L. Artistania
	C. make timber more resistant to insect atta	ck
	D. can decrease moisture content of timber	
	D. can decrease moisture content of timoer	to desired rever.
21.	The rice consumption of 500 kg was reduced	to 300kgs when the price rose from
	5000/= to 8000/= per kg. Calculate the elastic	eity of demand for
	rice during that period.	
	A. 0.006	
	B. 15	a Transport College No. Despressor of the
	C. 0.66	
	D. 1.5	SA Spira - Edward
	D. 1.J	

© WAKISSHA Joint Mock Examinations 2023

22.	A. Gene dominance B. Increased heterozygosity of genes. C. Genetic superiority of ancestors. D. Lethal gene effect in the herd.	
23.	A. Water logging. B. Nitrogen deficiency. C. Magnesium deficiency. D. Low soil pH.	
24.	Which of the following practices would improve power out put from draug A. Resting the animals. B. Using a short chain. C. Using a light yoke. D. Pairing the animal with another.	tht animals.
25.	Why is it necessary to leave some honey in the hive when harvesting? A. To allow bee eggs to hatch. B. To stimulate bees to collect more honey. C. To prevent bees from stinging. D. To prevent bees from swarming.	
26.	Hedges are not recommended for establishing paddocks because they A. take long to establish. B. can be eaten by animals when still young. C. reduce the grazing area for livestock. D. require regular trimming and thus costly.	
27.	An inventory is a statement which shows A. Assets and Liabilities. B. Income and Expenditure of a business. C. What a farmer owns and its value. D. Cash flow and cash out flows.	
28.	Which one of the following conditions would cause the highest rate of Photosynthesis? A. 0.13% CO ₂ at 20°C B. 0.03% CO ₂ at 20°C C. 0.03% CO ₂ at 30°C D. 0.02 % CO ₂ at 35°C	
29.	Grooming is a necessary practice done in dairy animals to facilitate A. clean milk production. B. easy movement of animals. C. easy circulation of hormones. D. easy mating of animals.	(0)
30.	 D. easy mating of animals. It's advisable to discard unfertilized eggs during incubation because they decompose and can contaminate other eggs by producing. A. Methane. B. Carbondioxide. C. Hydrogen sulphide. D. Carbon monoxide. 	Turn Over

SECTION B (70 MARKS)

31.	(a)	Write your answers in the spaces provided. Explain the meaning of gross margin	(02marks)
3.8			
	(b)	Give three ways in which the knowledge of gross margin ma utilized by the farmers.	(OSManie)
	(c)	A farmer has 5 hectares of land on which wheat was produce incured the following costs during the production of 100,000 wheat. ploughing 50,000/=, seeds 10,000/=, weeding 70,000/20,000/=, Harvesting 20,000/=, transport 10,000/=, Rent of s 20,000/=, Insurance 15,000/= and salary for workers 30,000/= each Kilogram of wheat at 1000/= Calculate the gross margin per hectare of wheat production	kg of /=, pesticides tore
)
32.	(a)	Explain the factors that determine fish stocking rate in a por	id. (05marks)
		·	
		man (Am.) at the contract of t	• • • • • • • • • • • • • • • • • • • •
	(b)	Mention the management practices necessary to maintain the	(05marks)
		Springer, midd Indiana.	
			······
		January Control	
		© WAKISSHA Joint Mock Examinations 2023	

33.	(a)	Define the term Gender	(02 1)
,-			(02marks)

	(b)	Explain how the sex ratio in the	
		Explain how the sex ratio in the population can affect agricult production.	ural (02markı)
	(c)	Suggest factors that influence the productivity of women in agproduction	gricultural (06marks)
34.	(a)	Explain the factors that favour the abundance of living organis soil.	ms in the (04marks)
		,	
	(b)	Give the desirable effects of soil living organisms.	(04marks)
35.	(a)	Explain the post-harvest practices of handling mushrooms.	(04mark)
		••••••	,
			•••••
		Ligando	(06
	(b)	What challenges are faced by mushrooms growers in Uganda.	
			••••••
			Turn Öyei
		WARSHA Joint Mock Examinations 2023	7

			.,
E.			
36.	(a)	Differentiate between inclined plane and a pulley as used in smachines.	
	(b)	Give four examples of second class levers.	(02marks)
	(c)	A crane lifts 600 kg through a vertical height of 12 m in 18 se (i) What weight is the crane lifting?	econds. (02 marks)
		espitate a cheun program al la combutation de la combutation della combutation de la combutation de la combutation della combutation della combutation della combutation della combutation della	
		(ii) What is the crane's useful power output?	(02 marks)
		(iii) If the motor has an efficiency of 80%, what is the power	(02 marks)
		, et anity	
37.	(a)	Describe how the rubber ring elastrator machine is used to case	strate a calf. (05marks)
			••••••
		######################################	
		(Approximate and Application of the Approximation of the Approximation of the Application	
			••••••
	(b)	Give reasons why castration is a recommended practice in an	1
	(-)	management.	mai (05marks)
		"THE STATE OF THE	

CS CamScanner