Name:	Centre/IndexNo
School:	Signature

P515/1
PRINCIPLES
AND PRACTICES
OF AGRICULTURE
PAPER 1
July/August 2024
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				
31	o ay mada milet mar w	The branches and the street		
32				
33		2016 is writing the hill		
34	TO CO. MO. HAVE BEING AND			
35				
36				
37	HINE SE REST HER SEE			
TOTAL				

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.	Which one of the following soils require prompt lime application for good crop productions? A. Saline soil. B. Soils with pH7. C. Soils with lower pH. D. Soil with a lot of aluminum ions.
2.	Which of the following government programmes least affect agricultural development in Uganda? A. Unlimited industrialization. B. Plan for modernization of agriculture. C. Liberation of the economy. D. Pluralism in government.
3.	If napier grass is consumed by an animal at the rate of 3.6% body weight per day, compute the amount of pasture consumed for 30 days by an animal whose body weight is 850 kgs. A. 850 Kgs B. 918 Kgs C. 950 Kgs D. 1125 Kgs
4.	When carrying out artificial insemination, thawing of semen is intended to A. Cool semen. B. Dilute semen. C. Activate semen. D. Preserve semen.
5.	Why is it necessary to leave some honey in the bee hive when harvesting honey? A. To allow bee eggs to hatch. B. Stimulate bees to collect more honey. C. Prevent bees from starving. D. Prevent bees from swarming.
6.	What do you understand by the term "Algae bloom" as used in fish farming? A. Production of Carbon dioxide by algea. B. Use of oxygen by algea. C. Removal of algea from ponds. D. Rapid growth of Algea in pounds.
7.	Which one of the following plant elements will lead to purple, orange patches in leaf margins in crops when deficient in soil. A. Magnesium B. Phosphorus C. Calcium D. Surphur
8.	What causes increased branching in plants when the terminal bud is removed? A. Exposure of lower parts to sunlight. B. Increased rate of photosynthesis. C. Increased level of auxins. D. Increased effects of giberlliens.
	© WAKISSHA Joint Mock Framinations 2024

9.	Which are a	
	Which one of the following is the reason for feeding livestock on bulky B. They contain a lot of energy.	feeds?
	I HCV are lagrate it	
	AND THE DELLE AND THE PARTY OF	
10	contain a lot of proteins	
10.	what is the major advantage of	
	A. Increase in hybrid vigour. B. Increase in hybrid vigour.	
	mercuse in heterozmonia.	
	C. Maintenance of constant gene number. D. Production of high yielding plant.	
11.	Which one of the fall	
	Which one of the following is not a determinant of elasticity of demand? R. Price of a commodity	
	B. Time taken to produce a commodite	
	WHICH a commodity is	
12.	recessity of the commodity.	
144	The factor that is least considered when deciding on fertilizers to use on a A. rainfall intensity.	crop is
	A. rainfall intensity. B. type of soil.	
	C. type of crop.	
	D. stage of crop growth.	
13.	The conversion of nitrites to nitrates by the migrahial heatesis	-11-1
		cribed as
	B. immobilization C. nitrification	
	D. denitrification	
14.	The setts of sugarcane are treated in hot water before planting in order to	
	Tollius silius.	
	B. Increasing viability.	
	C. Controlling viral diseases. D. Re-activate cane enzymes	
	and the same same same same same same same sam	
15.	Which pair of food stuff provides energy during starvation? A. Carbohydrates and proteins.	
	3. Carbohydrates and lipids.	
	Lipids ad proteins.	
	D. Carbohydrates and vitamins.	
6.	he measure of monetary output per unit of input on the farm can be best	
(escribed as	
A		
E		
D		
. 1	hich of the following nitrogenous fertilizer is only applied at a time of	
PI A	inting. N.P.K	
B.	Urea	
C.	Sulphate of ammonia	
D.	D.A.P	
		Pure Or
	© WAKISSILA Joint Mock Examinations 2024	Turn Over

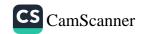
18.	A condition in cattle where the effects of a gene doesn't express it's self is said to be
	A. polygenous.
	B. co-dominant.
	C. sex-linked. D. recessive gene.
19.	In order to increase nodulation in a legume pasture, the farmer should;
2.75	A. add rooting hormones.
	B. add organic matter.
	C. carry out inoculation.
20.	D. apply Nitrogen fertilizers.
20.	A machine with efficiency of 75% is used to lift a load of 600 N by applying an effort of 40 N. Calculate the velocity ratio of the machine.
	A. 60
	B. 15 C. 30
	D. 20
21.	Which one of the following current assets on a farm business can be termed as
	liquid? A. Buildings
	B. Land
	C. Maize
22	D. Tractor
22.	Which of the following fertilizers will cause an increase in soil pH.? A. Sulphate of ammonia.
	B. Lime.
	C. S.S.P (Single Super Phosphate).
22	D. D.S.P (Double Super Phosphate). During carpentry work, which of the following tools can be used to holds
23.	gadgets together
	A. marking gauge.
	B. chisel. C. G-clamp.
	C. G-clamp. D. wood mallet.
24.	The plants lose water from their leaves by the help of
	A. turgor pressure.
	B. transpiration pull. C. active transport.
	D. osmosis.
25.	Which of the following enzymes is formed in the rumen of ruminants?
	A. Cellulase
	B. Pepsin C. Amylase
	D. Trypsin
26.	The region II of the production functions ends when
	A. marginal product is maximum.
	B. total physical product is zero. C. marginal product is zero.
	D. marginal product is negative.
	© WAKISSHA Joint Mock Examinations 2024 4

27.	The pressure that tends to force water out of a plant cell is A. Osmotic potential. B. Turgor pressure. C. Water potential. D. Pressure potential.	
28.		er shaft
29.	Which one of the following tissues offers mechanical support in plants? A. Schlerenchyma cells. B. Palisade cells. C. Mesophyll cells. D. Glandular cells.	
30.	In cattle, desirable traits from a bull can be spread fast by A. natural mating. B. grading up. C. cross breeding. D. multiple ovulation.	
	SECTION B (70 marks)	
31.	Write your answers in the spaces provided. (a) Outline the management practice for layers in a deep litter house.	(05 marks)
	(b) Explain the measures that should be taken to ensure production of high eggs under free range system.	quality (05 marks)
32.	(a) State and explain characteristics of a good fish species for rearing.	(06 marks)
	© WAKISSHA Joint Mock Examinations 2024	Turn Over

	1-1	Outline at	
	0)	Outline the causes of low fish yields from fish pounds.	(04 marks)
33. (8	a)	Explain the factors that make the soil to be more productive.	(06 marks)
			•••••••
			••••••
		•••••••••••••••••••••••••••••••••••••••	
(l-)]	Mention the major benefits of the following field practices.	
	(i) Early cultivation.	(04 marks)
	(ii) Row planting	• • • • • • • • • • • • • • • • • • • •
	(;	::) Intercoming	
	(1	ii) Intercropping	

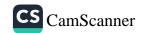
34 (0)	D	ifferentiate between the town and and the	
34. (a)	עו	ifferentiate between the term energy and power as used in simpl	
			(02 marks)
	**		
(b)	SI	now how the following machines can be used on the farm?	
	(i)	Wheel and axle	(03 marks)

		© WAKISSHA Joint Mock Examinations 2024	6



(ii) Inelia ()		
(ii) Inclined plane.		
(iii) Correct		
(iii) Serews		
Calculate.	ng 60 N is lifted to a height of 3 meters in 4 s	econds. (05 marks)
(i) Work done		(os mario)
· · · · · · · · · · · · · · · · · · ·		
· · · · · · · · · · · · · · · · · · ·	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
(ii) Power used		
· · · · · · · · · · · · · · · · · · ·		
	· · · · · · · · · · · · · · · · · · ·	
35. (a) Explain the factors that af	fect the rooting in cuttings during grafting.	(05 marks)
tommunummunumm		
mamammmmmmm		
(b) Give reasons for grafting of	of oranges.	(05 marks)
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

36. (a) What is meant by farm plan		(02 marks)
		(02 marks)
minimum and a few lands		
(b) Why is proper farm planning	ng important in modern farm management?	(04 marks)
amanamanamana		
namamamamamam	***************************************	
© WAKISSHA Jo	int Mock Examinations 2024	Turn Over



	The state of the s
(c)	Describe the steps that are involved in farm planning process for a mixed farm. (04 marks)

	Cat I beang mived farm
37. (a)	The information below shows the assets and liabilities of Mulwana mixed farm
	as at 31st/Dec/2010. Debts payable 600,000/=, debts recurable 860,000/=, promissory notes 105,000/= cash at hand 72,000/=, prepiad expenses 890,000/=, Bank over draft 966,000/=, unpaid insurance, 28,500/=, value of a sheep 365,000/=, value of maize 512,000. Buildings 20,000,000, Deprecation 694,000/=, long term loan 8,500,000/=, interest 947,000/=. Prepare balance sheet for Mr. Mulwana.
(b	With a reason, comment on the financial position of Mr. Mulwana's farm. (02marks)
	END
	LIND

