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.

FC	OR EXAMINER'S USE ON	LY
Question	Marks	Examiner's No./Initials
Section A		
31		
32	de Sales	
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37		
TOTAL		

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	c
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.	C
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.	

/ 9). WI A. B. C. D.	They are largely consumed. They contain a lot of proteins.	97
10	D. WI A. B. C. D.	nat is the major advantage of asexual reproduction in crop breeding? Increase in hybrid vigour. Increase in heterozgyosity. Maintenance of constant gene number. Production of high yielding plant.	
11	. Whi A. B. C. D.	ch one of the following is not a determinant of elasticity of demand? Price of a commodity Time taken to produce a commodity. Uses to which a commodity is. Necessity of the commodity.	
12.	A. B. C.	factor that is least considered when deciding on fertilizers to use on a crainfall intensity. type of soil. type of crop. stage of crop growth.	rop is
13.	A. B. C.	conversion of nitrites to nitrates by the microbial bacteria, can be descrimineralization immobilization nitrification denitrification	ribed as
14.	A. (B. 1) C. (etts of sugarcane are treated in hot water before planting in order to Control smuts. Increasing viability. Controlling viral diseases. Re-activate cane enzymes.	
15.	A. C B. C C. L	n pair of food stuff provides energy during starvation? Carbohydrates and proteins. Carbohydrates and lipids. Lipids ad proteins. Carbohydrates and vitamins.	
16.	describ A. pr B. ra C. ec	easure of monetary output per unit of input on the farm can be best bed as rofitability. Ite of money turn over. conomical efficiency. chnical efficiency.	
17.	A. N. B. Ur C. Su	of the following nitrogenous fertilizer is only applied at a time of g. P.K. rea Ilphate of ammonia A.P	

 A condition in cattle where the effects of a gene doesn't express it's self is said to be 		elf is said	
	A. polygenous.		
	B. co-dominant. C. sex-linked.		
	D. recessive gene.		
19.	In order to increase nodulation in a legume pasture, the farmer should A. add rooting hormones.	1;	
	B. add organic matter.C. carry out inoculation.		
	D. apply Nitrogen fertilizers.	,	
20.	A machine with efficiency of 75% is used to lift a load of 600 N by a effort of 40 N. Calculate the velocity ratio of the machine.	pplying an	
	A. 60 B. 15		
	C. 30		
	D. 20		
21.	Which one of the following current assets on a farm business can be liquid?	termed as	
	A. Buildings B. Land		C
	C. Maize		
	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).		
	D. D.S.P (Double Super Phosphate).		
23.	During carpentry work, which of the following tools can be used to l gadgets together	nolds	
	A. marking gauge. B. chisel.		
	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 ruminan	its?	
	A. Cellulase B. Pepsin		
	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.		
	B. total physical product is zero.C. marginal product is zero.		
	D. marginal product is negative.		
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	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.	The axle of a 4-wheel drive tractor has 120 teeth while that of the propel that drives it has 20 teeth. What is the velocity ratio of the wheel? A. 4 B. 8 C. 2 D. 6	ler 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 hig eggs under free range system.	
	32. (a) State and explain characteristics of a good fish species for rearing. © WAKISSHA Joint Mack Examinations 2024	(06 marks) Turn Over

		Outline the causes of law 5	
	(b)	Outline the causes of low fish yields from fish pounds.	(04 marks)
33.	(a)	Explain the factors that make the soil to be more productive.	(06 marks)
	(b)	Mention the major benefits of the following field practices. (i) Early cultivation.	(04 marks)
		(ii) Row planting	
		(iii) Intercropping	

34.	(a)	Differentiate between the term energy and power as used in simple m	(02 marks)
	(b)	Show how the following machines can be used on the farm? (i) Wheel and axle	(03 marks)
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1	/		(ii) Inclined plane.	
1			(iii) Screws	

		(c)	A bag of produce weighing 60 N is lifted to a height of 3 meters in 4 : (i) Work done	seconds. (05 marks)
			(ii) Power used	
,				
	35.	(a)	Explain the factors that affect the rooting in cuttings during grafting.	(05 marks)
			***************************************	•••••
				•••••
	(b)	Give reasons for grafting of oranges.	(05 marks)
(•••••
				•••••
		•		
		•		
	36. (a)		What is meant by farm planning?	(02 marks)
	30. (a)			(02 marks)
		•	••••••••••••••••••••••••••••••	
	(b)	V	Vhy is proper farm planning important in modern farm management?	(04 marks)
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1		(ii) Inclined plane.	
1			
		······	
		(iii) Screws	
	(c)	A bag of produce weighing 60 N is lifted to a height of 3 meters in 4 sec Calculate.	onds. (05 marks)
		(i) Work done	
		(ii) Power used	
_			
	35. (a)	Explain the factors that affect the rooting in cuttings during grafting.	(05 marks)
	•		
	(b)	Give reasons for grafting of oranges.	(05 marks)
1			
3			
		,	
	36. (a)	What is meant by farm planning?	(02 marks)
	(b)	Why is proper farm planning important in modern farm management?	
			Turn Over



(c)	Describe the steps that are involved.
	Describe the steps that are involved in farm planning process for a mixed farm.
	(04 marks)
37. (a)	The information below shows the assets and liabilities of Mulwana mixed farm
	as at 31 st /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