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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. ٠
- All answers should be written on this question paper.

FOR EXAMINER'S USE ONLY			
Question	Marks	Examiner's No./Initials	
Section A			
31			
32			
33			
34			
35			
36			
37			
TOTAL			

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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.

- Which one of the following soils require prompt lime application for good crop productions?
 - A. Saline soil.

2.

- B. Soils with pH7.
- C. Soils with lower pH.
- D. Soil with a lot of aluminum ions.

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.
- 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?
 - 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.
- 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.

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- 9. Which one of the following is the reason for feeding livestock on bulky feeds?
 - They contain a lot of energy.
 - B. They are largely digestible.
 - C. They are largely consumed.
 - D. They contain a lot of proteins.
- 10.
- What is the major advantage of asexual reproduction in crop breeding? A. Increase in hybrid vigour.
 - B. Increase in heterozyyosity.
 - C. Maintenance of constant gene number.
 - D. Production of high yielding plant.
- 11. Which one of the following is not a determinant of elasticity of demand?
 - A. Price of a commodity
 - B. Time taken to produce a commodity.
 - C. Uses to which a commodity is.
 - D. Necessity of the commodity.

12. The factor that is least considered when deciding on fertilizers to use on a 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 microbial bacteria, can be described as
 - A. mineralization
 - B. immobilization
 - C. nitrification
 - D. denitrification

14. The setts of sugarcane are treated in hot water before planting in order to

- A. Control smuts.
- B. Increasing viability.
- C. Controlling viral diseases.
- D. Re-activate cane enzymes.

15. Which pair of food stuff provides energy during starvation?

- A. Carbohydrates and proteins.
- B. Carbohydrates and lipids.
- C. Lipids ad proteins.
- D. Carbohydrates and vitamins.
- The measure of monetary output per unit of input on the farm can be best described as
 - A. profitability.
 - B. rate of money turn over.
 - C. economical efficiency.
 - D. technical efficiency.
- Which of the following nitrogenous fertilizer is only applied at a time of planting.



















A. polygenous.	
B. co-dominant.	
C. sex-linked.	
D. recessive gene.	
In order to increase nodulation in a legume pasture, the farmer should.	
 A. add rooting hormones. B. add organic matter 	
 B. add organic matter. C. carry out inoculation. 	
D. apply Nitrogen fertilizers.	
A machine with efficiency of 75% is used to lift a load of 600 N by applying	
effort of 40 N. Calculate the velocity ratio of the machine.	
A. 60 B. 15	
B. 15 C. 30	
D. 20	
Which one of the following current assets on a farm business can be termed	as
liquid?	
A. Buildings B. Land	
B. Land C. Maize	
D. Tractor	
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). 	
During carpentry work, which of the following tools can be used to holds	
gadgets together	
A. marking gauge.	
B. chisel.	
C. G-clamp. D. wood mallet.	-
The plants lose water from their leaves by the help of	
A. turgor pressure.	
B. transpiration pull.	
C. active transport.	
D. osmosis.	
Which of the following enzymes is formed in the rumen of ruminants? A. Cellulase	
A. Cellulase B. Pepsin	
C. Amylase	
D. Trypsin	
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.	
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- 27.
 - Osmotic potential. Α.
 - Turgor pressure. Β.
 - Water potential. C.
 - Pressure potential. D.

28. The axle of a 4-wheel drive tractor has 120 teeth while that of the propeller shaft that drives it has 20 teeth. What is the velocity ratio of the wheel?

- Α. 4
- B. 8
- C. 2
- D. 6

Which one of the following tissues offers mechanical support in plants? 29.

- Schlerenchyma cells. Α.
- Palisade cells. Β.
- C. Mesophyll cells.
- D. Glandular cells.

In cattle, desirable traits from a bull can be spread fast by 30.

- natural mating. A.
- В. grading up.
- cross breeding. C.
- D. multiple ovulation.

SECTION B (70 marks)

Write your answers in the spaces provided

31. (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 quality				
	eggs under free range system.	(05 marks)			

The pressure that tends to force water out of a plant cell is











	(b)	Outline the causes of low fish wight for the	
		Outline the causes of low fish yields from fish pounds.	(04 marks)
22		-	
33. ((a)	Explain the factors that make the soil to be more productive.	
		the son to be more productive.	(06 marks)

	1.1		
(0)	Mention the major benefits of the following field practices. (i) Early cultivation.	
		(i) Early cultivation.	(04 marks)

		******	***********
		(ii) Row planting	
	1	iii) Internet -	
		iii) Intercropping	

34 4			
34. (a) [Differentiate between the term energy and	
		Differentiate between the term energy and power as used in simple man	chinas
		·····	(02
			(02 marks)

(b)) \$	how how the following	
T. S.	G	how how the following machines can be used on the farm?	
	-	and axie	(03 marks)
		***************	(and a start sta

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			6

	(ii) Inclined plane.		
	(iii) Screws		
(a)	A has of produce weighing (0 N	I is lifted to a height of 3 meters in 4 se	conds.
(0)	Calculate.	is finded to a fielght of 5 meters in 4 se	(05 marks)
	(i) Work done		
	(ii) Power used		
5. (a)	Explain the factors that affect the	e rooting in cuttings during grafting.	(05 marks)
(b)	Give reasons for grafting of orar	iges.	(05 marks)
(a) \	What is meant by farm planning	?	(02 marks)
(a)	That is mount of man P		
(1) T	Why is proper farm planning im	portant in modern farm management	t? (04 marks





(c)	Describe the steps that are involved to be involved form
(-)	Describe the steps that are involved in farm planning process for a mixed farm. (04 marks)
	(01111113)

37. (a)	The second of the second lightlifting of Multiple and Lightlifting of Mult
	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/=
	20,000,000, Deprecation 694,000/=, long term loan 8,500,000/=, interest 947,000/=. Prepare balance sheet for Mr. Mulwana.
	(08 marks)

(b)	With a reason comment on the face 1.1
(0)	With a reason, comment on the financial position of Mr. Mulwana's farm. (02marks)

	END
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