NAME	INDEX NO
SIGNATURE	

527/1
PRINCIPLES AND
PRACTICES OF AGRICULTURE
Paper 1
(Theory)
July/August 2009
2 Hours 30 Minutes

WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education
PRINCIPLES AND PRACTICES OF AGRICULTURE
Paper 1
(Theory)
2 Hours 30 Minutes

INSTRUCTIONS

• Answer all questions in part A and 4 (four) questions from part B including at least one from section I, II, III.

FOR EXAMINERS' USE ONLY		
PART/QUESTION	MARKS	EXAMINER'S NO AND SIGN.
Part A		
Part B Qn		COMMONSTRUCTURE TO THE PROPERTY OF THE PROPERT
Qn		
Qn		
Qn		
TOTAL		

1
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PART A (20 MARKS)

Write the letter corresponding to the best answer in the box for question 1 and write your answers in the spaces provided for questions 2 - 5.

1 (a)	Which	one of the following	ng disease is trea	ted using a trocar an	d cannula?
1. (u)	Α.	Bloat	(C)	Mastitis	Monte de la Maria
	В.	Calf scours	(D)	Grass tetany.	
(b)	A soil	which has more hy	drogen ions that	n hydroxyl ions is	
	A.	Neutral	(C) A	cidic	
	В.	Alkaline	(D) Highly for	ertile	. [
(c)		margin is		= 15	10. Vertical later of the Control of
	A.	Out put minus van			
	В.	Total assets minus			
	.C.	Total sales minus			
\$1	D.	Total costs minus	variable costs.		<u> </u>
(d)	A dip	stick is a farm imp	lement used for		
()	(A) ^x	Determining the c	concentration of	acaricide is a dip tan	L .
	(B)	Determining the c	ienth of an oil su	imn	R
	(c)	Determining the l			[]
	(D)	Determining the l	evel of oil in sun	in	
\$3 II II				.r.	(2 marks)
					(z marks)
2.	State	four (4) precaution	s taken while di	pping livestock.	(4 marks)
(i)					8 1 8
(ii))				
(iii	i)				**********
· (iv				_A	
1,1	,				
3. (a)	State	the functions of the	e electrical syste	m of a tractor	(2 1 \
. ()	2	The Tamourous Of the	o orcorred syste.	in or a tractor.	(3 marks)
					• • • • • • • • • • • • • • • • • • • •
	•••••			· · · · · · · · · · · · · · · · · · ·	
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(b)	What are the effects of an inefficient cooling system?	(3 marks)
(9)	***************************************	

		(A onless)
4.	Give four reasons for using vegetative parts in crop propagation.	(4 marks)
	,	
	,	
10 E		(2 marks)
5.	Describe the role played by micro organism in soil fertility.	(2
(b)	Give four characteristics of a good soil for crop production.	(2 marks)
	TO A TOTAL TO A SEA THROAT	
	PART B (80 MARKS) SECTION I	
	MECHANIZATION AND FARM MANAGEMENT	
6.	(a) What is agriculture credit?	(2 marks)
	(b) Give 4 sources of agriculture credit.	(4 marks)
	(c) What is the role played by agriculture credit in agriculture produ	ction? (6 marks)
	(d) Give the problems that farmers encounter while using credit.	(8 marks)

7	7. (8	a) Explain the factors that may influence the performance of farm equipment	ent and tools. (10 marks)
	(t) State the ways of maintaining farm tools and equipment in good workin	g condition.
	(c) Give four tools that may be important when making a nursery bed.	(5 marks) (5marks)
8.	. (a	What are the characteristics of a good site for a farm building?	(8 marks)
	(b)	What is the importance of farm buildings?	(6 marks)
	(c) State the factors that may determine the design of a farm building. SECTION II CROP PRODUCTION	(6marks).
9.	(a)	Explain the factors that may determine the rate of soil formation.	(10 marks).
	(b)	Describe the determinants of soil fertility.	(10 marks)
10.	(a)	State five signs of disease in crops.	(7 marks)
	(b)	Mention the ways through which crop diseases spread.	(8 marks)
	(c)	Describe the steps taken by farmers to reduce the spread of crop disease	ses.(7marks)
11.	(a)	What are the desirable features of a good pasture plant?	(8 marks)
	(b)	Describe the steps taken to establish a hay pasture.	(8 marks)
	(c)	What are the advantages of feeding livestock on pastures.	(4 marks)
		SECTION III ANIMAL PRODUCTION	
12	(a)	Describe the ways of maintaining a high breeding efficiency in a herd.	(8marks).
	(b)	State the factors considered in selecting animals for a breeding program	ı. (8 marks)
	(c)	What are the merits of inbreeding as a breeding method?	(4 marks)
13.	(a)	State the characteristics of a good pig sty.	(8 marks)
	(b) (c)	Explain the management practices carried out on a sow during furrowir What challenges do pig farmers face ?	ng. (6 marks) (6 marks)
14.	(a) (b) (c)	Explain the factors that may determine the quality of hides and skins. Mention the steps taken in preparing hides and skins for the market. Give four uses of hides and skins.	(10 marks) (6 marks) (4 marks)
			9 1

END.

NAME:	Index No
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527/1
PRINCIPLES
AND PRACTICES
OF AGRICULTURE
Paper 1
July/August 2011
2¹/₂ hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

 Attempt all questions in Part A and four in section B, choosing at least one Question from each of the sections I, II, III.

FOR EXAMINER'S USE			
MARKS	EXAMINER'S NUMBER		
A			
til			
	_		
<u></u>			
	•		

SECTION A

a)	Which of the following constitutes the soil space?	
	A. Air and living organisms.	
	B. Soil air and soil particles.	
	D. Son particles and water.	
b)		

	D. Milk hold up.	
c)	A piece of truss that holds the rafter in position and placed nearer to the	barge is the;
	A. Tie beam.	
	B. Strut.	
	C. Rafter bracket.	
	D. Barge board.	
d)	When making a balanced sheet, prepaid expenses are placed under.	N
-/	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	A. Assets.	
	B. Closing evaluation.	
	C. Liabilities.	
	C. Liabilities.	
	D. implicit costs.	
.7		
	D. implicit costs.	(04mks)
		(04mks)
	D. implicit costs.	(04mks)
*	D. implicit costs.	(04mks)
*	D. implicit costs.	(04mks)
	D. implicit costs.	(04mks)
	D. implicit costs.	(04mks)
*	D. implicit costs. Mention four methods of putting waste land to full use.	(04mks)
	D. implicit costs.	
	D. implicit costs. Mention four methods of putting waste land to full use.	
	D. implicit costs. Mention four methods of putting waste land to full use.	
	D. implicit costs. Mention four methods of putting waste land to full use. a) What is meant by a Profit and Loss account?	
	D. implicit costs. Mention four methods of putting waste land to full use. a) What is meant by a Profit and Loss account?	(02mks)
¥	D. implicit costs. Mention four methods of putting waste land to full use. a) What is meant by a Profit and Loss account?	
** S00	D. implicit costs. Mention four methods of putting waste land to full use. a) What is meant by a Profit and Loss account? b) State at least four features of a good Profit and Loss account.	(02mks)
*	D. implicit costs. Mention four methods of putting waste land to full use. a) What is meant by a Profit and Loss account?	(02mks)
¥	D. implicit costs. Mention four methods of putting waste land to full use. a) What is meant by a Profit and Loss account? b) State at least four features of a good Profit and Loss account.	(02mks)
	c)	 B. Soil air and soil particles. C. Air and water. D. Soil particles and water. b) Oxytocin hormone is responsible for A. Milk production. B. Milk letdown. C. Contraction of the penis during mating. D. Milk hold up. c) A piece of truss that holds the rafter in position and placed nearer to the A. Tie beam. B. Strut. C. Rafter bracket. D. Barge board. d) When making a balanced sheet, prepaid expenses are placed under. A. Assets.

4.		Give four criteria to use when identifying a good stock man	(04mks)
		••••••	
5.		Give three ways in which farm water may be kept clean and safe for the	use.
			(03mks)

		DADT D (90NAVZC)	
		PART B (80MKS)	
		SECTION I MECHANISATION AND FARM MANAGEM	IENT
6	a)	State the characteristics of agriculture products.	(6mks)
	b)	Explain the factors affecting the supply of agriculture products.	(14mks)
7	a)	Give six materials used in constructing farm buildings	(0(1)
10/8			(06mks)
	,	Explain the factors to consider when selecting a site for farm build	dings.
			(14mks)
8	a)	Explain the structural difference between a disc plough and mould	i board plough
			(10mks)
	b)	How can a farmer maintain a mould board plough in a good worki	ng condition.
			(06mks)
	c)	State any four conditions that favour use of ox ploughs.	(04mks)

SECTION II CROP AND SOIL SCIENCE.

9	a)	Describe how you would make quality compost manure using a h	eap method.
			(06mks)
	b)	State the factors that affect the response of crops to fertilizers.	(14mks)
10	a)	State the mechanical methods of controlling soil erosion.	(8mks)
	b)	Explain the factors that may influence the rate of erosion in an ar	ea.
			(12mks)
11	a)	State the importance of phosphorus in crop production.	(05mks)
	b)	Outline the deficiency symptoms of phosphorus.	(05mks)
	c)	Give ways how phosphorous is lost from the soil.	(05mks)
	d)	Mention any five factors that may lead to increase in nutrients los	s from soils.
		**	(05mks)
		SECTION III ANIMAL SCIENCE	
10			

- 12 a) State the abnormalities that occur in eggs. (06mks)
 - b) Explain the various ways through which good quality eggs can be produced.

(14mks)

- 13 a) State the signs of heat in goats. (08mks)
 - b) Explain how you can manage a pregnant goat up to kidding (12mks)
- 14a) What are the factors considered when selecting animals for a breeding programme.
 - b) Explain the various methods used to select a breeding stock. (12mks)

- END-

(8mks)

Name:	Index No
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527/1
PRINCIPLES
AND PRACTICES
OF AGRICULTURE
(Theory)
Paper 1
July/August 2013
2¹/₂ hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

 Attempt all questions in section A and four questions in section B, choosing at least one question from each of the sections I, II, III of section B.

FO	R EXAMINER'S U	
QUESTIONS	MARKS	EXAMINER'S NUMBER
PART A	\$7 \$4	
PART B Qn.	l'	*1
Qn.		
Qn.		
Qn.		
TOTAL		

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SECTION A: (20MARKS)

Answer all questions in this part. For question 1, write the letter corresponding to the most correct answer in the box provided. For questions 2 to 5, write all answers in the spaces provided.

1.	a)	What is meant by seed inoculation in pasture establishment?	
	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	 Breaking seed dormancy of pasture seeds. 	
		 B. Promoting nitrogen fixation in pastures. 	
		C. Encouraging easy rooting in seeds.	
		D. Protecting seeds from pest attack.	10.
	b)	What is the function of a compression stroke in a petrol engine? A. Vapourising fuel-air mixture.	11 ×
		B. Mixing of fuel-air mixture.	
		C. Raising temperature of fuel-air mixture.	
		D. Expansion of fuel-air mixture.	2 70
	c)	Which of the following hormones initiate milk let down? A. Prolactin B. Lactogen	R
		C. Adrenalin	18
		D. Oxytocin	
		Control State Control Administration Control C	
	d)	The initial process in mechanism of soil erosion is	
		A. dislodging of soil particles.	
ń		B. destruction of soil particles.	
		C. splashing of soil particles.	
		D. transportation of soil particles. (02m	ks)
2	Stat	te five benefits of agro-forestry as a farming practice. (05m	rocavenii R - Ni
۷٠		te five benefits of agro-forestry as a fairning practice.	K5)
	i) _		- 8
	11) _		
	iii)_		_
	iv)_		
	v) _		
3.		ve four ways in which farmers improve profit margins on their farms.	
	/-	THE MAINTAINS AND AND AND AN OF THE PARTY.	123

tate four reasons for lubricating farm machines.	(04mks)
ii)iv)	7
State five ways in which the quality of milk may be lowered.	F
i)	
11)	
iii)	
1V)	
v)	
SECTION B: 80 MARKS.	(05mks)
Answer any four questions from this section choosing at least one of the sections I, II, III. SECTION I	from each
MECHANISATION AND FARM MANAGEMENT.	18 N
a) Why is a tractor important on the farm?	(06mks)
b) State the differences between a petrol and diesel engine.	(14mks)
a) What are the features of a good plunge dip?	(05mks)
b) Describe how dipping is achieved using a plunge dip?	(10mks)
c) What factors affect the effectiveness of dipping?	(05mks)
a) Why should farmers get agricultural credit?	(04mks)
 Suggest reasons why farmers fail to pay back credit extended to them. 	(10mks)
c) How can credit be made more effective in farming?	(06mks)
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SECTION II

CROP PRODUCTION

	CROTTRODO	
	a) Why should farmers drain their farmland?	(08mks)
9.	b) Describe the different methods used in draining land.	(12mks)
	a) Name four inorganic fertilizers that contain Nitrogen.	(04mks)
10.	a) Name four inorganic tertifizers that contains	
	b) What are the uses of Nitrogen in crop growth?	(04mks)
	Contilizare in Cr	op production.
	c) Describe the methods used when applying fertilizers in cr	(12mks)
	t to the types of water erosion.	(08mks)
11.	 a) Name and describe the types of water erosion. 	2 (2)
	b) Explain the factors that encourage erosion.	(12mks)
	b) Explain the factors that cheodrage cross-	83
	SECTION III	
	ANIMAL PRODUCTION	
		(02mlca)
12.	a) What are vices?	(02mks)
14.		(04mks)
	 b) State the different vices among birds. 	(O-IIIIco)
	c) How can vices be controlled in a poultry house?	(14mks)
	a) Describe the stages through which a hide is obtained fr	om a cow
13.	up to storage.	(12mks)
	b) How can farmers ensure production of high quality hic	les and skins?
	b) How can farmers embare product	(08mks)
14.	a) Why are ticks a problem in animal production?	(05mks)
14.	90% May 8	50 000 000 000 000 000 000 000 000 000
	b) Describe how tick control can be achieved through har	nd spraying.
	2.	(12mks)
	c) State the common diseases spread by ticks.	(03mks)

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Name:		Index No
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School:	********	

527/I
PRINCIPLES
AND PRACTICES
OF AGRICULTURE
(Theory)
Paper 1
July/August 2015
2¹/₂ hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 1 THEORY

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

 Answer all questions in section A and four questions in section B, choosing at least one question from each of the sections I, II, III of section B.

QUESTIONS	MARKS	EXAMINER'S NUMBER
PART A		
PART B No.		
No.		
No.		
No.		
TOTAL		

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PART A: 20 MARKS

Answer all questions in this part.

For question 1 write the letter corresponding to the best answer, in the boxes provided and for question 2 to 5, write the answers in the spaces provided.

1. (a)) Wł	nat causes brown streak disease in Cassava?	
	Α.	Bacterium	
	B.	Aphid	
	C.	Virus	
	D.	Fungus	
(b)	Wh	nich one of the following is a deficiency disease?	
ntost	A.	Milk	
	B.	Bloat	
	C.	Trypanosomiasis	
	D.	Heart water.	
(c)	Ho	w can price fluctuation be solved?	
	A.	Through transport improvement.	[]
	B.	Through market diversification.	
	C.	Through advertisement.	
	D.	Through production diversification.	
.•(d)	Ho	w can the concentration of acaricide be lowered in a dip?	
20.25	A.	Through dipping on a rainy day.	
	В.	Through over using the acaricide.	
	C.	Through replenishing regularly.	
	D.	Through leaving the drainage pipe open.	(02 marks)
2. (a)	Mer	ntion three conditions that make the animals suffer from	(03 marks)
	(i)		
	(ii)		
	(iii)		
(b)	State	two methods that can be used to treat bloat.	(02 marks)
	(i)		
	(ii)	***************************************	
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3	. Out	line five factors that affect the demand of the commodity.	(05 marks)
	(i)		
	(ii)		
	(iii)		
	(iv)		
	(v)		
4	. Sta	te four functions of lubricants in farm machines.	(04 marks)
	(i)		
	(ii)		
	(iii)	
	(iv)	
5	i. Gi	ve reasons for pruning crops.	(04 marks)
	(i)		
	(ii)		
	(iii)	
	(iv)		
	.,	PART B: (80 MARKS)	
	Ansv	ver four questions from this section including at least one from	each section.
	0f H	SECTION I	
		MECHANISATION AND FARM MANAGEMENT.	
6	i. (a)	State the activities involved in the marketing of agricultura	l produce.
	(b)	Outline the problems of marketing Agricultural produce.	(10 marks) (10 marks)
_	90 000 W 0000000		
/	. (a)	Why is a tractor important on a farm?	(08 marks)
	(b)	State the differences between petrol engines and diesel eng	gines. (12marks)
8	. (a)	Describe the features of a good calf pen.	(14 marks)
	(b)	Why is a crush important on a farm?	(06 marks)
	75.32	황	

SECTION II

CROP PRODUCTION

		Distinguish between seed dormancy and seed viability.	(02 marks)
9.	(a)	State the main causes of seed dormancy.	(06 marks)
	(b)		(12 marks)
	(c)	Describe the various methods used to break seed dormancy.	(122 11111111)
10.	(a)	State the characteristics of a good green manure crop.	(06 marks)
	(b)	Describe how green manure is prepared on the farm.	(10 marks)
	(c)	State the advantages and limitations of using green manure.	(04 marks)
	X-Z	STANDED DE PROMETO DE MESTO DE LA CONTRESE DE LA CONTRESE DE CONTRESE DE LA CONTRESE DEL CONTRESE DE LA CONTRESE DE LA CONTRESE DEL CONTRESE DE LA CONTRESE DEL CONTRESE DE LA CONTRESE DEL CONTRESE DE LA CONTRESE DE LA CONTRESE DEL CONTRESE DEL CONTRESE DE LA CONTRESE DEL CONTRESE DE LA CONTRESE DEL CONTRESE DEL CONTRESE DE LA CONTRESE DEL CONTRESE DE LA CONTRESE DEL CONTRESE DEL CONTRESE DEL CONTRESE DEL CONTRESE DE LA CONTRESE DEL CONTRESE DE LA CONTRESE DE LA CONTRESE DEL CONTRESE DE LA CONTRESE DEL CO	
11.	(a)	State the qualities of a good pasture species.	(08 marks)
	(b)	Describe how pastures can be improved.	(12 marks)
		SECTION III	#
		ANIMAL PRODUCTION	
12.	(a)	State the objectives of breeding farm animals.	(10 marks)
	(b)	Describe the methods farmers use to maintain a high breeding	g efficiency.
			(10 marks)
13.	(a)	Describe how you can use a surgical method to castrate a calf	.(12 marks)
.,	(b)	Why is castration carried out on a farm?	(08 marks)

14. (a) State the characteristics of a good layer.

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(06 marks)

(b) State the advantages and disadvantages of a deep litter system.

(14 marks)

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OF AGRICULTURE
(Theory)
Paper 1
July/August 2014
2¹/₂ hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

 Answer all questions in section A and four questions in section B, choosing at least one question from each of the sections I, II, III of section B.

FO	OR EXAMINER'S U	SE ONLY
QUESTIONS	MARKS	EXAMINER'S NUMBER
PART A	di	
PART B Qn.		
Qn.		
Qn.		
Qn.	25	
TOTAL	- 1	The state of the s

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SECTION A: (20MARKS)

For question 1, write the letter corresponding to the most correct answer in the box provided. For questions 2 to 5, write all answers in the spaces provided.

1. (a) Which of the following nutrients is most important in the development of flowers, seeds and fruits? A. Nitrogen. B. Potassium. C. Magnesium. D. Sulphur. (b) Disconnection of power from the engine to the drive shaft is achieved by the use of A. Gear box. B. Differential. C. Connecting rod. D. Clutch. (c) What term is given to the difference between total income and total variable costs? A. Gross margin. B. Net capital. C. Gross profit. D. Net profit. (d) Selection of animals for breeding basing on performance of ancestors is termed as A. Progeny testing. B. Tandem selection. C. Pedigree selection. D. Mass selection. D. Mass selection. (02 marks) 2. Give any five objectives for improving crops. (05marks) ii) iii) iii)	00.	L pro	rruce		the development
of flowers, seeds and funds: A. Nitrogen. B. Potassium. C. Magnesium. D. Sulphur. (b) Disconnection of power from the engine to the drive shaft is achieved by the use of A. Gear box. B. Differential. C. Connecting rod. D. Clutch. (c) What term is given to the difference between total income and total variable costs? A. Gross margin. B. Net capital. C. Gross profit. D. Net profit. (d) Selection of animals for breeding basing on performance of ancestors is termed as A. Progeny testing. B. Tandem selection. C. Pedigree selection. D. Mass selection. (02 marks) i) iii iii) iii) iii)	1	(a)	W	ich of the following nutrients	is most important in the
A. Nitrogen. B. Potassium. C. Magnesium. D. Sulphur. (b) Disconnection of power from the engine to the drive shaft is achieved by the use of A. Gear box. B. Differential. C. Connecting rod. D. Clutch. (c) What term is given to the difference between total income and total variable costs? A. Gross margin. B. Net capital. C. Gross profit. D. Net profit. (d) Selection of animals for breeding basing on performance of ancestors is termed as A. Progeny testing. B. Tandem selection. C. Pedigree selection. D. Mass selection. (02 marks) 2. Give any five objectives for improving crops. (05marks) ii) iii) iii)	1.	(")	of i	lowers, seeds and fruits?	
C. Magnesium. D. Sulphur. (b) Disconnection of power from the engine to the drive shaft is achieved by the use of A. Gear box. B. Differential. C. Connecting rod. D. Clutch. (c) What term is given to the difference between total income and total variable costs? A. Gross margin. B. Net capital. C. Gross profit. D. Net profit. (d) Selection of animals for breeding basing on performance of ancestors is termed as A. Progeny testing. B. Tandem selection. C. Pedigree selection. D. Mass selection. (02 marks) 2. Give any five objectives for improving crops. (05marks) ii) iii)					
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(b) Disconnection of power from the engine to the drive shaft is achieved by the use of A. Gear box. B. Differential. C. Connecting rod. D. Clutch. (c) What term is given to the difference between total income and total variable costs? A. Gross margin. B. Net capital. C. Gross profit. D. Net profit. (d) Selection of animals for breeding basing on performance of ancestors is termed as A. Progeny testing. B. Tandem selection. C. Pedigree selection. D. Mass selection. D. Mass selection. (02 marks) 2. Give any five objectives for improving crops. (05marks) i) ii) iii)			D.	Sulphur.	20
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2. Give any five objectives for improving crops. (05marks) i)					12
i)			000		(02 marks)
i)					
i)	2	. Gi	ve a	ny five objectives for improvi	ng crops. (05marks)
ii)iii)iv)	0.770				61
iii)iv)		i)			esecusive.
iii)iv)		ii)			
iv)		200	mes e		
		iii)			
		iv)	W	想	

3. (a) State any two signs of mastitis in a cow.	(t)ZinktX\$)
1)	
ii)	-
(b) How can farmers reduce the spread of mastitis on their farms?	(02marks)
i)	
ii)	No. 1990
 Suggest four ways in which prices of products are determined in 	n a market? (04marks)
1)	
ii)′	
iii)	
iv)	
5. (a) State five conditions that favour use of Ox-plough cultivation.	(05 marks)
0	
ii)	-
iii)	
iv)	
٧)	
SECTION B (80 MARKS)	
SECTION J	
MECHANISATION AND FARM MANAGEMENT	
6. (a) Why are agricultural produce processed before sale?	(06marks)
(b) Explain the factors affecting the supply of agricultural produ	cts.
	(14marks)
 (a) Why are diesel engine tractors commonly used on the farm the engine tractors? 	han petrol (06marks)
(b) What are the benefits of mechanizing agricultural production	9
	(14marks)
. (a) What are the reasons for having a store on the farm?	(06marks)
(b) Explain the factors to consider when siting farm buildings.	(14marks)
	Turn O

SECTION II

CROPS AND SOILS.

	for good vegetable crop to grow.	(08marks)
9. (a)	State the characteristics of a good vegetable crop to grow.	
(b)	Describe how to determine viability of a security of	(12marks)
	germination test.	12
10. (a) Suggest reasons for the popularity of chemical weed control	method. (10marks)
. (b) What precautions should farmers take when applying herbic	ides? (06marks)
(c) State the factors affecting the effectiveness of herbicides.	(04marks)
11 (0) Describe how silage is prepared on the farm.	(10marks)
1	o) Outline the factors affecting the quality of silage.	(05marks)
	s) State the precautions taken when preparing silage.	(05marks)

SECTION III

ANIMAL PRODUCTION.

12. (a) State the features of a good calf pen.	(06marks)
(b) Describe how a calf is trained to drink from a bucket.	(10marks)
(c) State the advantages of bucket feeding.	(04marks)
13. (a) How is an egg formed in a hen?	(07marks)
(b) State the abnormalities that occur during egg formation.	(07marks)
(c) What are the characteristics of a good egg?	(06marks)
14. (a) Why are parasites a problem in livestock farming?	(06marks)
(b) Describe the life cycle of liver fluke.	(10 marks)
(c) How can liver fluke be controlled on the farm?	(04marks)

Name:	Index No
School:	Signature:

527/1
PRINCIPLES
AND PRACTICES
OF AGRICULTURE
(Theory)
Paper 1
July/August 2017
21/2 hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 1

THEORY

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

 Answer all questions in part A and four questions in part B, choosing at least one question from each of the sections I, II, III of part B.

FC	OR EXAMINER'S U	USE ONLY
QUESTIONS	MARKS	EXAMINER'S NUMBER
PART A		
PART B; No.		
No.		
No.		
No.		
TOTAL		

PART A: 20 MARKS

Answer all	questions in this part. on 1, write the letter corresponding to the correct answer in the box ons 2 to 5, write the answers in the spaces provided.	on the right.	
For question 1, write the letter corresponding to For questions 2 to 5, write the answers in the spaces provided.			
	Why are cereal crops the most produced in many parts of the world?		
1. (a)	A. Highly nutritive.		
	B. Popular amongst farmers.		
	C. Tolerant to drought.		
	D. Adapted to different soils and climates.		
(b)	Which one of the following parts of the digestive system of a rumina	ant does	
	digestion of proteins begins?		
	A. Rumen.		
	B. Omasum.		
	C. Abomasum.		
	D. Reticulum.		
(c)	What is gross margin?		
	A. The difference between total output and variable costs.		
	B. The difference between assets and liabilities.		
	 The difference between sales and expenses. 		
	 The difference between fixed costs and variable costs. 		
(d)	Which of the following may cause the engine to produce a lot of	of smales?	
	A. Dirty spark plug.	or smoke?	
	B. Worn out piston rings.		
	C. Faulty choke valve.		
	D. Low level of oil in the sump.		
		(02 marks)	
2. State	four reasons for drying crop seeds before storage.		
	a District Control of the Control of	(04 marks)	
(i)			
(ii)		************	
(iii)		••••••	
(iv)	five ways in which disagraph 6	••••••	
State	five ways in which diseases in f		
C)	five ways in which diseases in farm animals can be prevented.	(05 marks)	
(1)			
(ii)	***************************************	••••••	
(iii)			
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	(iv)			
	(v)			
4.	Men	tion four possible causes of overheating in a tractor engine.	(04 marks)	
	(i)			
	(ii)			
	(iii)			
	(iv)			
5.	Why	y are farmers advised to keep farm records?	(05 marks)	
	(i)			
	(ii)	·		
	(iii)			
6	(iv)			
	(v)			
		PART B (80 MARKS)		
		y four questions from this part, choosing at least one from each sanswers in the answer booklet/sheets provided.	ection.	
	.,	SECTION I.	40	
		MECHANISATION AND FARM MANAGEMENT.		
6.	(a)	What are the benefits of being a member of a co-operative socie	ety?	
			(06 marks)	
	(b)	State the principles on which co-operatives operate.	(06 marks)	
	(c)	What led to the collapse of co-operatives in Uganda?	(08 marks)	
		3		
7.	(a)	What are the features of a good wet type (oil bath) air cleaner?	(06 marks)	
	(b <u>)</u>	State the functions of the various features in clean air productio	n.	
			(07 marks)	
	(c)	How can the wet type (oil bath) air cleaner be serviced to perform	rm well? (07 marks)	

8.	(a)	Describe how a spray race is used in tick control.	(06 marks)
	(b)	State the advantages of using a spray race in tick control.	(10 marks)
	(c)	How can a spray race be maintained?	(04 marks)
		SECTION II	
		CROP PRODUCTION	
9.	(a)	State the factors affecting soil formation.	(05 marks)
	(b)	Describe the characteristics of a fertile soil.	(10 marks)
	(c)	Suggest the farming practices that maintain soil fertility.	(05 marks)
10.	(a)	Why are weeds a problem in farming?	(06 marks)
	(b)	State the characteristics that make weeds more successful than	r crop plants.
			(08 marks)
	(c)	What are the advantages of chemical weed control?	(06 marks)
11.	(a)	State the reasons for crop improvement.	(06 marks)
	(b)	Explain the field practices that lead to increased crop yields.	(14 marks)
		SECTION III	
131		ANIMAL PRODUCTION.	
12.	(a) (b)		(06 marks) good quality (14 marks)
13	. (a) (b)	5	(06 marks) (14 marks)
14	. (a)	With the aid of a diagram, describe the life cycle of a two he	
	(b) (c)		(12 marks) (04 marks) (04 marks)
		END	

NAME:	Index No
SCHOOL:	Signature:

527/1
PRINCIPLES
AND PRACTICES
OF AGRICULTURE
Paper 1
July/August 2011
2¹/₂ hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

 Attempt all questions in Part A and four in section B, choosing at least one Question from each of the sections I, II, III.

THE PARTY OF THE P	FOR EXAMINER	S USE	
QUESTIONS	MARKS	EXAMINER'S NUMBE	
PART A			
Qn.			
TOTAL			

SECTION A

1	200	Which of the following constitutes the soil space? A. Air and living organisms. B. Soil air and soil particles. C. Air and water. D. Soil particles and water.	
	50	A. Milk production.B. Milk letdown.C. Contraction of the penis during mating.D. Milk hold up.	
	c)	 A piece of truss that holds the rafter in position and placed nearer to the A. Tie beam. B. Strut. C. Rafter bracket. D. Barge board. 	e barge is the;
	d)	When making a balanced sheet, prepaid expenses are placed under. A. Assets. B. Closing evaluation. C. Liabilities. D. implicit costs.	
2.		Mention four methods of putting waste land to full use.	(04mks)
3		a) What is meant by a Profit and Loss account?	(02mks)

		••••••	
		b) State at least four features of a good Profit and Loss account.	(04 mks)

4.	Give four criteria to use when identifying a good stock man	(04mks)		
5.	Give three ways in which farm water may be kept clean and safe for use.			
		(03mks)		

PART B (80MKS)				
	SECTION I MECHANISATION AND FARM MANAGEMI	ENT		
6	a) State the characteristics of agriculture products.	(6mks)		
	b) Explain the factors affecting the supply of agriculture products.	(14mks)		
7	a) Give six materials used in constructing farm buildings	(06mks)		
	b) Explain the factors to consider when selecting a site for farm build	lings.		
		(14mks)		
	8 a) Explain the structural difference between a disc plough and mould	l board plough		
	8 a) Explain the structural difference between a series	(10mks)		
	b) How can a farmer maintain a mould board plough in a good work	ing condition.		
	b) How can a farmer maintain a mound board prough in a german	(06mks)		
	c) State any four conditions that favour use of ox ploughs.	(04mks)		

SECTION II CROP AND SOIL SCIENCE.

9 a) Describe how you would make quality compost manure using a heap method.

(06mks)

b) State the factors that affect the response of crops to fertilizers.

(14mks)

10 a) State the mechanical methods of controlling soil erosion.

(8mks)

b) Explain the factors that may influence the rate of erosion in an area.

(12mks)

11 a) State the importance of phosphorus in crop production.

(05mks)

b) Outline the deficiency symptoms of phosphorus.

c) Give ways how phosphorous is lost from the soil.

d) Mention any five factors that may lead to increase in nutrients loss from soils.

SECTION III ANIMAL SCIENCE

- 12 a) State the abnormalities that occur in eggs. (06mks)
 - b) Explain the various ways through which good quality eggs can be produced.

(14mks)

- 13 a) State the signs of heat in goats. (08mks)
 - b) Explain how you can manage a pregnant goat up to kidding (12mks)
- 14a) What are the factors considered when selecting animals for a breeding programme.

(8mks)

(05mks)

b) Explain the various methods used to select a breeding stock. (12mks)

- END-

NAME:	Index No
SCHOOL:	Signature:

527/1
PRINCIPLES
AND PRACTICES
OF AGRICULTURE
(Theory)
Paper 1
July/August 2012
2¹/₂ hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

 Attempt all questions in section A and four in section B, choosing at least one Question from each of the sections I, II, III of section B.

FOR EXAMINERS' USE ONLY					
QUESTIONS	MARKS	EXAMINER'S NUMBER			
PART A	3				
Qn.		1			
Qn.					
Qn.					
Qn.					
TOTAL	-				

WAKISSHA Joint Mock Examinations 2012

SECTION A

Answer all questions in this part. For question 1, write the letter corresponding to the correct answer in the box provided. For questions 2 to 5, write all answers in the spaces provided.

1	. a)	Why is ballasting done on tractor tyres?		
8		A. To increase the amount of pressure in the tyre.		118
		B. To cool the tractor tyres.		
		C. To increase traction		-
		D. To reduce friction.		
		The control of the co		
	b)	Which of the following hormones is secreted by corpus lut	eum?	
		A. Progesterone	24	
*		B. Luteinising hormone		
		C. Follicle stimulating hormone	10	
		D. Prolactin.	38	. %
	· c)	What do an and I	63	
	c)	What do pre-paid expenses represent in farm accounting? A. Liabilities	8	e x 8 4 29
		COLORDO INTERNACIONAL CONTRACTOR DE CONTRACT		
		B. Assets	T (2)	
		C. Gross Margin		
		D. Explict cost.		*
	d)	How can mealy bugs and aphids be controlled on crop plant		
		A. Use of nematicides	is?	10
		B. Use of systemic fungicides		
*		C. Use of fumigants	7/m = 5205	
		D. Use of systemic insecticides.		
			(02Mar	rks)
2.	Wha	t are the benefits of planting crops at the start of the rainy sea	econ?	
			10111	rka)
	(i)		(OTMU	r ns)
	(ii)			•••
	(iii)			•••
	(iv)			•••
3	300	five beautiful of the state of		•••
٥.	Diate	five benefits of being a member of a co-operative society?	(05 m	arks)
iii	(i)			
	(ii)	***************************************	•••••••	•••••
	(iii)		••••••	• • • • • •
	,)			

3.

(iv)					
(v)					
4. a) What are the functions of the gear box in the transmi of a tractor?	ssion system (03 marks)				
(i)	(05 marks)				
(ii)	4				
(iii)	***************************************				
 Mention two other parts of the transmission system of a tractor. 					
6)	(02 marks)				
(ii)					
5. How are tape worms adapted to their parasitic life?	(04marks)				
(ii)					
(iii) (iv)					
SECTION B: 80 MARKS.					
Answer any four questions from this section choosing at le	east one from each				
SECTION I	E				
MECHANISATION AND FARM MANAGEM	ENT.				
6. a) Why is wood commonly used as a fencing material?	(06 marks)				
 b) Describe the following methods of wood treatment for f 	encing.				
(i) Hot and cold soaking	(05 marks)				
(ii) Sap displacement.	(05 marks)				
(ii) Vaccum treatment.	(04 marks)				
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7. a) What are the advantages of using a disc plough in land preparation? (10 marks) b) Describe how you can maintain a disc plough after a season's work. (10 marks) 8. a) Explain the problems of high population density on agricultural (14 marks) production. b) State how land tenure systems have affected agricultural production. (06 marks) SECTION II CROP PRODUCTION (08 marks) 9. a) State the different ways through which crop diseases spread. b) Explain how crop diseases can be controlled on the farm. (12 marks) 10.a) Why is maize growing popular in Uganda? (08 marks) b) Describe how a crop of maize can be raised from land preparation up to weeding. (12 marks) 11.a) State the factors influencing soil formation. (06 marks) b) Describe the characteristics of a fertile soil. (08 marks) c) How is soil fertility lost? (06 marks) SECTION III ANIMAL PRODUCTION 12.a) How does a hen digest its food? (12 marks) b) State the problems faced by poultry farmers in Uganda. (08 marks) 13.a) Why are most dairy farmers using artificial insemination as a breeding method? (14 marks) b) Suggest ways in which Artificial Insemination can be made more popular among farmers. (06 marks) 14.a) Describe the process of milk hold up in a lactating cow. (10 marks) b) Explain the factors affecting milk yield in a lactating cow. (10 marks)