

MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRIBUSINESS MANAGEMENT AND TRADE

THIRD YEAR SPECIAL/ SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

ANS 301: RUMINANT ANIMAL PRODUCTION

DATE: 19/01/2021 TIME: 8.30-10.30 AM

INSTRUCTIONS;

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MACHAKOS UNIVERSITY

University Examination for 2019/2020 Acadamic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURE EDUCATION

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THIRD YEAR FIRST SEMESTER SUPPLEMENTARY/SPECIAL EXAMINATION FOR +--Formatted: Line spacing: 1.5 lines BACHELOR OF SCIENCE IN AGRICULTURE EDUCATION AND EXTENSION AND **BACHELOR OF EDUCATION SCIENCE ANS 301: RUMINANT ANIMAL PRODUCTION Date Time** Instructions: Answer question ONE and any other TWO questions QUESTION ONE (30 MARKS) Formatted: Justified, Line spacing: 1.5 lines Explain TWO disadvantages of using Bomas as housing units in ruminant animals a) Formatted: Justified, Indent: Left: 0 mm, Hanging: 12.7 mm, Line spacing: 1.5 lines husbandry Formatted: Font: Not Bold Formatted: Font: Not Bold marks) -(4mks Formatted: Font: Not Bold b) Explain the management aspects to control scouring in calves____ marks) Explain FOUR differences between ruminant and non-ruminant digestive systems (4mks c) - **Formatted:** Font: Not Bold Explain TWO reasons why it is important to carry out the following routine management d) practices in ruminant animal husbandry i. Livestock identification _____ (2mks Formatted: Font: Not Bold marks) (2mks Formatted: Font: Not Bold ii. Dehorning ____ marks) iii. Dipping (2mks)Formatted: Font: Not Bold -Explain FIVE factors considered in selecting breeding Does _____ (5mks Formatted: Font: Not Bold marks) Formatted: Font color: Red

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f)	Distinguish between the following in livestock production(4mks	Formatted: Font: Not Bold
1)	marks)	C I I I I I I I I I I I I I I I I I I I
	ii. Beef and mutton	
g)	Explain THREE reasons why proper milking techniques should be used(3 mks	Formatted: Font: Not Bold
	<u>marks</u>)	
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QUESTION TWO (20 MARKS)		
a)	Explain FIVE methods that can be used for identifying livestock	Formatted: Justified, Indent: Hanging: 12.7 mm, Line spacing: 1.5 lines
	<u>marks</u>)	Formatted: Font: Not Bold
b)	Describe the Boran breed of cattle under the following headings	
	i. Disease resistance	Formatted: Font: Not Bold
	<u>marks</u>)	Formatted: Justified, Indent: Left: 12.7 mm, Hanging: 12.7 mm, Line spacing: 1.5 lines,
	ii. Survival(5 mks	Numbered + Level: 1 + Numbering Style: i, ii, iii, + Start at: 1 + Alignment: Left + Aligned at: 28.6 mm + Indent at: 34.9 mm
	marks)	Formatted: Font: Not Bold
QUE	STION THREE (20 MARKS)	Formatted: Justified, Line spacing: 1.5 lines
a)	Explain FIVE advantages of partitioning sheep and goat houses	Formatted: Justified, Indent: Left: 0 mm, Hanging: 12.7 mm, Line spacing: 1.5 lines
	<u>marks</u>)	Formatted: Font: Not Bold
b)	Explain FIVE reasons why disease and treatment records are important(10mks	Formatted: Font: Not Bold
	marks)	
QUE	STION FOUR (20 MARKS)	Formatted: Justified, Line spacing: 1.5 lines
a)	Describe FIVE ways in which climate change affect ruminant animal production (10mks*	Formatted: Font: Not Bold
	marks)	Formatted: Justified, Indent: Left: 0 mm, Hanging: 12.7 mm, Line spacing: 1.5 lines
b)	Explain the advantages of ranching over nomadic pastoral production systems(10mks	(133) (14)
	marks)	
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