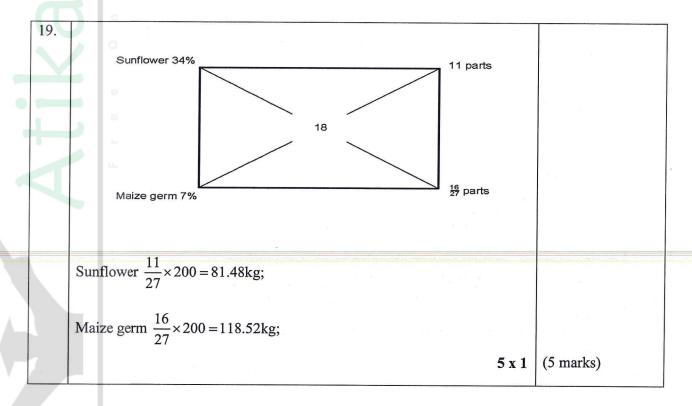
4.15.2 Agriculture Paper 2 (443/2)

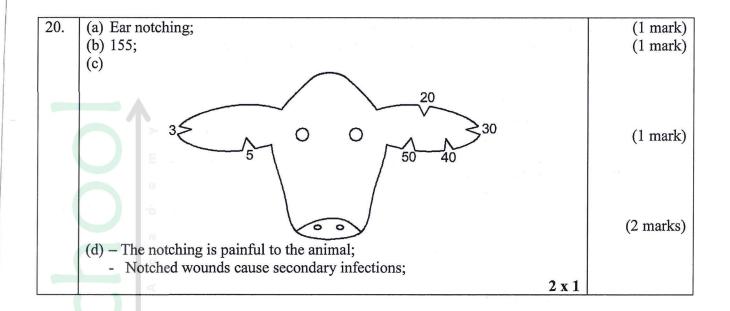
1.	a)	- Young;	T
		- Healthy;	
		- Prolific;	
		- High performer/yielder;	
		- Free from physical deformities;	
		- Fertile;	
	7	- Proper body conformation;	
		- Adapted to local conditions;	
		- Good mothering ability;	
		(6 x ½ mark)	(3 marks)
2.	-	Ensure efficiency;	
	-	Make them durable;	, a 1
	-	Reduce replacement costs;	
	-	Avoid injury to the user;	1
		(4 x ½ mark)	(2 marks)
3.	14	Highly digestible;	
	-	Highly nutritious;	
	-	Contains antibodies which boost immunity;	
	_	Has laxative effect;	
1		Highly palatable;	ž.
		(4 x ½ mark)	(2 marks)
4.	-	Stabilize the banks;	(2 marks)
Ш		Attract insects which lay eggs that hatch into larvae for fish food;	
-		(2 x ½ mark)	(1 mark)
5.	1-	Free range;	(T mark)
		Deep litter;	
		Fold;	
		Battery cage;	
		(4 x ½ mark)	(2 marks)
6.	-	It is possible to compare animals of different age groups;	(2 marks)
	-	Eliminates differences due to environmental factors;	
	- 1	It is possible to compare bulls of different artificial insemination centres;	
	-	It is accurate;	
		(3 x ½ mark)	(1½ marks)
7.	(a)	Close breeding:- Breeding of closely related animals;	(1/2 IIIai K5)
	(b)	Line breeding: Mating of distantly related animals that share a common	
		ancestry;	
		Out crossing:- Mating of unrelated animals within the same breed;	'
	(d)	Cross breeding: Mating of two animals of different breeds;	
		(4 x ½ mark)	(2 marks)
8.	- '	Vaccination;	(Z marks)
		Deworming;	
		Hoof trimming;	
		Spraying;	1
		Dehorning;	
		Freatment/injection;	
		(4 x ½ mark)	
		(4 X 72 mark)	
			(2 marks)
			(= 11101110)

9.	(a) - Friesian;	
	(b) - Guernsey;	-
	(c) - Jersey;	(11/
10	$(3 \times \frac{1}{2} \text{ mark})$	(1½ marks)
10.	(a) Crutching:- Cutting of wool around the external reproductive organ of a female	
	sheep to facilitate mating while	/1 1 N
	Ringing:- Trimming of wool around the sheath of the penis in rams to	(1 mark)
	facilitate mating;	
	(b) Tapping:- Act of mating in goats and sheep;	
	Serving:- Act of mating in cattle and pigs;	(1 marks)
11.	- Conditions which lead to the animal contracting a disease;	
		(1 mark)
12.	- Fertile (has germinal disk; black spot);	
	- Free from blood spots;	
	- Large air space;	
	- Free of hair cracks;	
\ \	- Free of excessively porous shell;	-
	- Free of broken shells;	
	4 x ½	(2 marks)
13.	- Floor;	(= 11141115)
15.	- Ceiling;	
	- Door;	
	- Windows;	
	4 x ½	(2 marks)
1.4		(Z IIIaiks)
14.	- Starring coat;	
	- Eggs and parasites seen in faeces;	
	- General emaciation;	
-	- Diarrhoea;	
	- Pot-bellies;	
	- Anaemia;	
	- Anorexia;	
1	- Dehydration/pale mucosa;	
	4 x ½	(2 marks)
15.	(a) Rip saw: - cuts along the grain of wood.	(1 mark)
	Cross-cut saw – cuts across the grain of wood;	
1	(b) Wood chisel – cutting grooves/chopping rough wood surface;	- 1 - 1
	Cold chisel – cutting thick sheets of metal.	(1 mark)
16.	(a) Conditions inside or outside the animal body which make it to contract a	
	disease;	(1 mark)
1	(b) Is the duration between the time of infection and the time the first symptoms	` /
	show up;	
V-1		(1 mark)
1		(

SECTION B (20 marks)

17.	(a) Tapeworm;	(1 mark)
	(b) (i) Ingestion of bladder worm;	
		(1 mark)
	(ii) Ingestion of eggs (proglottids) passed in human faeces during	(1 mark)
	grazing/feeding;	-
	(c) – Use of antihelmintics/deworming to kill endo-parasites;	_ = /
	- Proper hygiene in the unit;	
	- Proper use of latrines to prevent contamination by infected faeces;	9 2
	- Proper cooking of meat to destroy bladder worms;	
	- Use of clean feed, feeders, water and waterers to prevent	
	contamination;	(2 a-l-a)
		(2 marks)
4.0	2 x 1	** **
18.	(a) Disc plough;	(1 mark)
	(b) H – Beam;	(1 mark)
	J – Lower link attachment point;	(1 mark)
	(c) Counteracts the thrust by the discs to balance the plough;/helps to	()
	adjust the depth of ploughing;	
		(1 1-)
	1 x 1	(1 mark)
		-
	(d) The discs are able to roll over obstacles;	
	1 x 1	(1 mark)





SECTION C (40 marks)

21.	(a) -	Provide the broody hen with a nesting box which should be	
		spacious to allow movement of the hen;	
		Provide nesting material in the nesting box to maintain warmth;	
		Provide the broody hen with $10 - 15$ eggs;	
	1	Keep the nest in a dry; and well-ventilated area;	
	-	Provide the hen with balanced feed and water;	
	-	Dust the hen with appropriate insecticides to control external parasites;	
	-	Allow the hen to go out at least once to exercise and feed;	
1 .	-	Do not disturb the hen when the eggs start hatching;	
		8 x 1	(8 marks)
	(b) -	Provide adequate floor space, feeders, and waterers;	
	-	Provide litter on the floor up to 15cm deep;	*
	-	Provide growers mash adlib;	
	-	Provide plenty fresh water;	
	-	Dust the birds with appropriate insecticides to control external	
		parasites;	
	-	Keep the litter dry to avoid dampness;	×
	-	Provide grit or oyster shells towards the end of growers stage/at 12	7,
		weeks;	
A	-	Gradually introduce layers' mash from the 16 th week until it completely	
		replaces growers' mash at $18^{th} - 19^{th}$ week.	
\		(5 x 1 mark)	(5 marks)
٧.	(d) -	Human power:- Working directly or utilizing their capacity	
		of organization;	
	-	Animal power e.g. donkeys, oxen camels for cultivation and	
		transportation;	
	-	Wind power e.g. for winnowing, pumping water and turning turbines;	
	-	Water power e.g. driving turbines to produce HEP driving maize	
		grinding mills and pumping water;	

	and the same to
- Biomass e.g. Biogas, wood or charcoal;	
- Solar radiation in photosynthesis, drying crops, generate electricity, etc	;
- Electric power from geothermal, hydropower and nuclear stations,	
battery;	
- Fossil fuel:- petroleum, coal, natural gas, etc;	
Tractor:- Burns petrol or diesel to produce power which is transmitted	
and used in different ways;	
7 x 1	(7 marks)
22. (a) (i) - Bacteria/virus/Mycoplasma mycoides;	(7 marks)
- Dust and worms in the lungs;	
1 x	1 (1 monts)
1 X	1 (1 mark)
(ii) - Calves; kids; lambs; piglets; poultry;	
2 x	(2 marks)
(iii) – Poor ventilation;	-
- Overcrowding;	
- Age- young animals;	
- Diarrhoea and other illnesses;	(2 marks)
2 x	
(iv) - Dullness;	
- Loss of appetite;	
- Starring coat;	5
- Emaciation;	
	11
- Rapid breathing;	
- Fluctuating body temperature;	4
- Nasal mucous discharge;	2
- If chest is pressed, animal starts coughing;	-
5 x 1	(5 marks)
(v) - Keep young animals in warm houses;	
- Proper sanitation;	
- Isolation;	
- Treatment using antibiotics;	110
3 x 1	(3 marks)
(b) - Concrete/slatted floor to facilitate cleaning;	(
- Spacious to allow exercise, feeding and watering;	
- Single housing to prevent licking of one another/ skin infections and	
spread of worms;	×
- Well lit to facilitate synthesis of vitamin D;	
	1
- Well drained to prevent dampness which predisposes the calf to	х
infections;	
- Free from draughts: Solid on the wind ward side to prevent entry of	
cold winds;	
 Leak proof to avoid dampness/wetness which encourages infections; 	
7×1	(7 marks)

22	(-)	Destinance	1
23.	(a) -	Restlessness;	
	-	Mounting others and stands still when mounted;	- 5 °
		Slight rise in temperature;	
	-	Slight drop in milk yield;	re ×
	-	Vulva swells and becomes reddish;	
	-	Clear or slimy mucus discharge from vagina;	_
		Frequent mowing;	
		5 x 1	(5 marks)
	(b) - S	Suitable for pregnant and sick animals;	(C MATERIAL)
1 /	_	Animals do not swallow the acaricide wash;	
1 (Spraying is faster;	
		It is less laborious;	
l .		Acaricide wash is not wasted as it is recycled;	
		5 x 1	(5 montes)
	(c) -	Healthy animals grow fast and mature early;	(5 marks)
	(0) -	Animals give a longer productive life;	
l V			ii
	_	Produce good quality products;	
		Give maximum production/performance;	x 1, s
4		Prevent spread of diseases;	
	_	Healthy animals are economical to keep;	
	(4)	5 x 1	(5 marks)
	(d) -	Body size or weight of the animal; large animals eat more	
		food;	
	-	Environmental conditions where the animals is; animals in cold areas	
1		require more food;	
	_	Physiological condition of the animal; lactating animals require more	
		food;	
0 1	_	Level of production:- High producers also require more food;	
1		Purpose for which the animal is kept; animal kept as a pet requires less	
		food than the one kept for production or performance;	
		5 x 1	(5 marks)