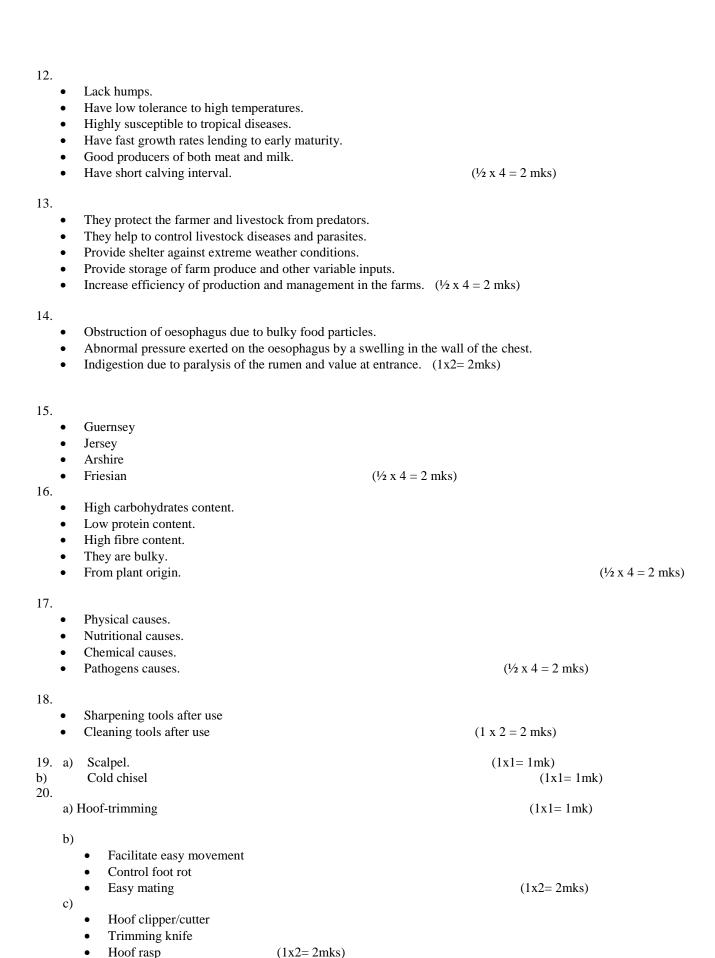
## MARKING SCHEME AGRICULTURE FORM 3 PAPER 2

		non	ICCLICAL FORM 5	I III EK 2		
1.	Api	culture is keeping of bees in a beehive wh (1 x 1 = 1 mk) Mark as a whole	g of fish in fish ponds.			
2.	•	Fencing around the fish pond using stron Providing a screen above the pond to gua		(½ x 3 =1 ½mk)		
3.	<ul><li>a) Brown ear tick - E.C.F</li><li>b) Tsetse fly - Trypanosomiasis.</li></ul>		(½ mk)		(½ mk)	
4.	a) b)	It's a preventive treatment that gives the Application of chute at the belly of a ram			(½ mk) (½ mk)	
5.	Wa	ter / Mud snail. (½	mk)			
6.	•	To fertilize the queen. Control temperature of the hive / cool the	e hive.	$(\frac{1}{2} \times 2 = 1 \text{mk})$		
<ol> <li>7.</li> <li>8.</li> </ol>	Carif	Fornia white.  Earlops Flemish giant. Chinchilla New Zealand white.  Grow fast and well enough to reach mature a longer economic and producting Give maximum production / performance. To produce good quality products thus fewer and the seconomical and easy to keep.	ve life e since they maintain hig etching high market valu	e		
9.	•	Are economical and easy to keep.  Orally through the mouth. Through the cloaca. Inhaling through the nose. Internal injection.  Water availability. Flowers availability Sheltered place. Away from human beings and livestock. Away from disturbance e.g. loud noise.		$(\frac{1}{2} \times 4 = 2 \text{ mks})$ $(\frac{1}{2} \times 4 = 2 \text{ mks})$		
11.						

 $(1 \times 2 = 2 \text{ mks})$ 

MitesSpidersTicks



21.	a)	<ul> <li>Temporary storage of food.</li> <li>Moistening of food . (1 x 1 = 1mk)</li> </ul>					
b)		Produces gastric juices which contain enzymes and Hydrochloric Act	$(1 \times 1 = 1 \text{mk})$				
	c)						
	•,	<ul> <li>Has tough muscles which slide sideways to grind food into paste</li> <li>Has girt / sand which help in grinding of food. (2 x 1</li> </ul>	= 2mks)				
	d)	Debeaking. $(1 \times 1 = 1 \text{mk})$					
22.	a)	Barbed wire fence. $(1 \times 1 = 1 \text{mk})$					
b)		A - Intermediate posts (Standards) B - Dropper C- Strainer / struts.					
23.8	<i>.</i> )	D - Diagonal wire brace		$(1 \times 2 = 2mks)$			
b)	ι)	<ul><li>P - Adjustable spanner.</li><li>M - Pipe wrench</li><li>Can be adjusted to fit any nut or bolt.</li></ul>	(½ x 2=	1mk) (1 x 1 = 1mk)			
c)							
d)		M - for holding, tightening and loosening metallic pipes. N - Used for cutting P.V.C pipes.		$(1 \times 2 = 2 \text{mks})$			
u)		• Store properly after use.					
		Oil moving part.			$(^{1}/_{2} \times 2 = 1 \text{ mk})$		
24.							
<ul> <li>One bull may serve many cows thereby increasing usefulness of a bull.</li> <li>Prevents spread of breeding diseases rej. Diseases only.</li> <li>Possible to make use of a bull that cannot serve naturally due to injuries or too heavy.</li> <li>Reduces expenses to a farmer because does not have to own a bull.</li> <li>Easy to control inbreeding.</li> <li>Semen can be stored for a long time even after death of the bull.</li> <li>Easy to control breeding.</li> <li>Eliminates dangerous bulls from the farm.</li> <li>Useful research tool in studying large number of daughters from a single sire.</li> <li>Prevent large bull from injuring small cows</li> <li>Reduce expenses of keeping a bull on pasture veterinary bills. (1x10= 10mks)</li> </ul>							
b)		Restlessness  Enlarged or swollen vulva  Clear mucus discharge from the vulva  Slackening of the pelvic muscles or the relaxing of hip muscles  Full and distended udder  Thick milky fluid comes out of teats	(5 - 1	- 5mks)			
(	:)	Water bag appears and bursts, just before lambing	(3 X I	= 5mks)			
		<ul><li>They cause anaemia</li><li>Deprive the host of food</li></ul>					

Cause injury / damage to body tissues

- Cause irritation as they migrate from one organ to another
- Cause obstruction of internal organs
- Emaciation
- Pot bellies
- Staring coat  $(1 \times 5 = 5 \text{mks})$

25

a)

- Ensure they are fed with creep feed.
- Spray with appropriate insecticide to control external parasites.
- Deworm with appropriate antiheimenthies to control internal parasites.
- Provide plenty clean water.
- Cut the tail.
- Vaccinate against apparent diseases.
- Isolate and treat the sick.
- Keep proper records.
- Carry out teeth clipping.
- Control anaemia by iron injection.
- Ensure they suck colostrums immediately after birth.
- Remove and dispose after birth / still births.
- Place the piglets under warm conditions.
- Provide furrowing crate.
- Weigh each piglet and record the birth weight.
- Ensure they are breathing properly.
- Tie, cut and disinfect the navel cords of the piglets. (1x10 = 10 mks)

b)

- Brown tick.
- Red legged tick.
- Large bont legged tick.
- African bont legged tick. (1x2 = 2mks)

c)

- Eggs hatch on the ground into larvae;
- Larval climbs onto the first host; sucks blood;
- Get engorged; and moult into nymphs;
- Nymphs on the same host sucks blood; get engorged; and fall on the ground.
- On the ground nymphs moults into adults;
- Adults climbs the second host; the adult sucks blood;
- Get engorged; mates;
- The adult female drops to the ground to lay eggs. (1x8 = 8mks)

26. a)

- A cow is restrained in a crush
- A bull is brought to the teaser cow
- The bull mounts the cow and directs the penis to the vulva
- The farmer grabs the penis immediately and directs it into the artificial vagina
- The bull ejaculates into the artificial vagina and semen is collected (5x1 = 5mks)

b)

- Spraying livestock against external parasites
- Identifying animals
- Vaccination of animals
- Administration of prophylactic drugs to livestock
- Treating sick animals
- Dehorning
- Pregnancy test
- Artificial insemination
- Taking body temperatures
- Hoof trimming
- Milking

- Collection of semen (7x1 = 7mks)
- c)
   Proper feeding and nutrition
  - It avoids deficiency diseases and makes animal strong and able to resist disease
  - A balanced diet prevents nutritional or metabolic disorders and ensures vigour and greater resistance to disease.
  - Proper breeding and selection
    - Healthy animals should be selected for breeding
    - Animals that are susceptible to diseases should be culled
    - Appropriate breeding policies and programmes should be employed to avoid transmission of congenital diseases
  - Proper housing and hygiene
    - Houses should be constructed such that they meet the necessary requirements for particular animals
    - Livestock houses should be regularly cleaned and disinfected
  - Isolation of sick animals
    - Sick animals should be separated and confined in their own structures for treatment to avoid the spread of diseases
  - Imposition of quarantine
    - In the event of an outbreak of a notifiable disease, movement of animals and their products from and into the area with the outbreak should be restricted
  - Taking prophylactic measures
    - Use of prophylactic drugs
    - Carrying out vaccination
    - Control of vectors
    - Treatment of sick animals
  - Slaughtering of affected animals
    - Animals attacked by highly infectious and contagious should be killed and disposed off by burning or burying 6 feet under
  - Use of antiseptics and disinfectants kill disease causing organisms thereby preventing disease attack (8x1 = 8mks)