**FORM FOUR CLUSTER KCSE MODEL1 AGRICULTURE PAPER 2 ANSWER**

# [SECTION A (30 Marks)](http://revision.co.ke/)

## [Answer all questions in this section 1. Name two goats reared for milk production.](http://revision.co.ke/)

1. [- Toggen burg](http://revision.co.ke/)
	* [Saanen](http://revision.co.ke/)
	* [Jamnapuri](http://revision.co.ke/)
	* [Nubian (2 x ½ = 1mark](http://revision.co.ke/)
2. [- Chisel plough](http://revision.co.ke/)
	* [Subsoiler (2x ½ =1 mark)](http://revision.co.ke/)
3. [- Location of the homestead](http://revision.co.ke/)
	* [Security](http://revision.co.ke/)
	* [Direction of prevailing wind.](http://revision.co.ke/)
	* [Relationship between the structures.](http://revision.co.ke/)
	* [Taste and preference of the farmer.](http://revision.co.ke/)
	* [Proximity to social amenities. 4 x ½ 2 marks](http://revision.co.ke/)
4. [- Location of the homestead](http://revision.co.ke/)
	* [Security](http://revision.co.ke/)
	* [Direction of prevailing wind.](http://revision.co.ke/)
	* [Relationship between the structures.](http://revision.co.ke/)
	* [Taste and preference of the farmer.](http://revision.co.ke/)
	* [Proximity to social amenities. 4 x ½ 2 marks](http://revision.co.ke/)
5. [- Increase efficiency of machines](http://revision.co.ke/)
	* [Reduce heat created by rubbing surfaces.](http://revision.co.ke/)
	* [-Acts as a cleaning agent.](http://revision.co.ke/)
	* [Oil used to prevent rusting of stationary machines. 4 x ½ = 2marks](http://revision.co.ke/)
6. [- Isolation](http://revision.co.ke/)
	* [Quarantine.](http://revision.co.ke/)
	* [Prophylaxis](http://revision.co.ke/)
	* [Slaughtering](http://revision.co.ke/)
	* [Proper feeding.](http://revision.co.ke/)
	* [Control vectors](http://revision.co.ke/)
	* [Vaccination](http://revision.co.ke/)

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* + [Use antiseptic and disinfectants. (4 x ½ =2 marks)](http://revision.co.ke/)
1. [. - Use/function of the building.](http://revision.co.ke/)
	* [Type of building.](http://revision.co.ke/)
	* [Depth and stability of the soil.](http://revision.co.ke/)
	* [Drainage of the area. 4 x ½ = 2 marks](http://revision.co.ke/)
2. [- Large space is required.](http://revision.co.ke/)
	* [Eggs can get lost in the runs.](http://revision.co.ke/)
	* [Difficult to have close supervision on individual birds.](http://revision.co.ke/)
	* [Birds can be stolen or eaten by predators.](http://revision.co.ke/)
	* [Breeding programme is not easily managed. ( 4 x ½ =2 marks)](http://revision.co.ke/)
3. [- Increase durability.](http://revision.co.ke/)
	* [Reduce replacement cost.](http://revision.co.ke/)
	* [Increase efficiency.](http://revision.co.ke/)
	* [Avoid injury to the user.](http://revision.co.ke/)
	* [Avoid damage to the tool. (4 x ½ = 2 marks](http://revision.co.ke/)
4. [. (a) Anthrax ( ½ mark)](http://revision.co.ke/)
5. [Bacteria/bacillus anthracis ( ½ mark)](http://revision.co.ke/)
6. [Blanthrax (1 mark)](http://revision.co.ke/)
7. [. - Cost of the feedstuffs](http://revision.co.ke/)

[. - Nutritional composition.](http://revision.co.ke/)

* + [Availability of the feedstuffs.](http://revision.co.ke/)
	+ [Physical nature of the feedstuff](http://revision.co.ke/)
	+ [The age of the animal](http://revision.co.ke/)
	+ [The species of the animal (4 x ½ = 2 marks)](http://revision.co.ke/)
1. [. Flushing: Giving sheep extra feed of good quality before and immediately after mating.](http://revision.co.ke/)

[Steaming up: Giving pregnant ewe extra feeds of good quality 3 -4 weeks to lambing. (Mark as a](http://revision.co.ke/) [whole ) (2 x 1= 2 marks](http://revision.co.ke/)

1. [- Ensure efficient herbage utilization.](http://revision.co.ke/)
	* [Faster accumulation of manure.](http://revision.co.ke/)
	* [Facilitates formation of biogas.](http://revision.co.ke/)
	* [Leads to high milk production.](http://revision.co.ke/)

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* + [High stocking rate per unit area. (4 x ½ =2 marks)](http://revision.co.ke/)
1. [- Provides different forward speeds.](http://revision.co.ke/)
	* [Allows the driver to select any forward or reverse gear.](http://revision.co.ke/)
	* [Allows change in the speed ratio by altering the gears conveniently.](http://revision.co.ke/)
	* [Allows the driver to stop the tractor without suddenly stopping the engine. (3 x ½ =1 ½ marks)](http://revision.co.ke/)
2. [. - Fire resistant](http://revision.co.ke/)
	* [Durable](http://revision.co.ke/)
	* [Resistant to weather elements. (3 x ½ = 1 ½ marks](http://revision.co.ke/)
3. [. - Source of water.](http://revision.co.ke/)
	* [Soil type](http://revision.co.ke/)
	* [Topography](http://revision.co.ke/)
	* [Nature of the land (4 x ½ = 2marks)](http://revision.co.ke/)
4. [- To fertilize the queen.](http://revision.co.ke/)
	* [To control the temperature (2 x ½ = 1 mark)](http://revision.co.ke/)

# [SECTION B (20 Marks)](http://revision.co.ke/)

## [Answer all questions in this section](http://revision.co.ke/)

1. [. (i) B Exhaust port C Inlet port (2 x 1=2marks)](http://revision.co.ke/)

[(ii) -Not expensive to buy and maintain.](http://revision.co.ke/)

[-Economical in fuel consumption.](http://revision.co.ke/)

[-Used in a wider range of farmland including hilly areas.](http://revision.co.ke/)

[-Can do small tasks within the farm which would otherwise be uneconomical to do using four](http://revision.co.ke/) [stroke cycle engine. (3 x ½ = 3 marks)](http://revision.co.ke/)

1. [. (i) -Vegetative propagation unit. (1 x 1= 1 mark)](http://revision.co.ke/)

[(ii) -Source of water.](http://revision.co.ke/)

[-Soil type](http://revision.co.ke/)

[-Sunshine](http://revision.co.ke/)

[-Security](http://revision.co.ke/)

[-Location in relation to the field where crop are finally established. (4 x 1= 4 marks)](http://revision.co.ke/)

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[-Location in relation to the field where crop are finally established. (4 x 1= 4 marks)](http://revision.co.ke/)

1. [. (i) D - Stock and die (½ mark) E - Sprinkler (½ mark)](http://revision.co.ke/)

[F -Hypodermic needle and syringe (½ mark)](http://revision.co.ke/)

1. [D -Cutting threads on metallic pipes. (½ mark) E -Overhead irrigation. (½ mark)](http://revision.co.ke/)

[F -Injecting medicine or vaccines into animals or extracting blood samples for laboratory analysis.](http://revision.co.ke/) [(½ mark)](http://revision.co.ke/)

1. [-Unblock nozzles](http://revision.co.ke/)

[-Clean after use](http://revision.co.ke/)

[-Proper storage](http://revision.co.ke/)

[-Repair work-out/broken parts (2 x 1=2 marks)](http://revision.co.ke/)

# [SECTION C (40 Marks)](http://revision.co.ke/)

## [Answer only two questions in this section.](http://revision.co.ke/)

[22. . a)](http://revision.co.ke/)



1. [-Wire mesh above the door to enhance proper ventilation.](http://revision.co.ke/)
	* [Rat guard to control rats from accessing into the store.](http://revision.co.ke/)
	* [A large door for ease in loading and offloading.](http://revision.co.ke/)
	* [Iron roof to ensure no water leakage.](http://revision.co.ke/)

[-Strong timber on the raised floor to absorb the weight of the farm produce.](http://revision.co.ke/)

[-Stairs for easy entrance and exit.](http://revision.co.ke/)

[-Smooth inner surface to prevent weevils from hiding. (5 x 1= 5 marks)](http://revision.co.ke/)

1. [-Adult tapeworm releases mature proglottides.](http://revision.co.ke/)

[-Proglottidee passed out in human feaces.](http://revision.co.ke/)

[-Segment releases the eggs.](http://revision.co.ke/)

[-Eggs are eaten by grazing pigs i.e. intermediate host.](http://revision.co.ke/)

[-Eggs hatch into embryo in the intermediate host.](http://revision.co.ke/)

[-Young embryos penetrate the intestinal wall into the blood stream.](http://revision.co.ke/)

[-Embryos are distributed in the muscles.](http://revision.co.ke/) [Diesel engine Petrol engine](http://revision.co.ke/)

[-Use diesel as fuel Use petrol as fuel](http://revision.co.ke/)

[-Fuel ignited by compression](http://revision.co.ke/)

[-Fuel ignited by an electric spark.](http://revision.co.ke/)

[-Has no carburetor](http://revision.co.ke/)

[-Has carburetor](http://revision.co.ke/)

[-Operates at higher compression ratio (16:1) hence more powerful](http://revision.co.ke/)

[-Operates at lower compression ratio (8:1)](http://revision.co.ke/)

[-Has injectors that atomize diesel](http://revision.co.ke/)

[-Has no injectors -Uses less fuel per unit distance.](http://revision.co.ke/)

[-Uses more fuel per unit distance](http://revision.co.ke/)

[-Provide a lot of smoke](http://revision.co.ke/)

[-Provide less smoke](http://revision.co.ke/)

[-Air and fuel first mixed in the cylinder Air and fuel are first mixed in carburetor before igniting.](http://revision.co.ke/)

[-Embryos form cysts in the muscles.](http://revision.co.ke/)

[-If man eats undercooked porked infected with the cyst, cyst wall dissolves and young worms are](http://revision.co.ke/) [freed.](http://revision.co.ke/)

[-Young worm develop into adult and cycle repeats. (10 x 1= 10 marks)](http://revision.co.ke/)

1. [. a)i) -Coccidia/protozoa](http://revision.co.ke/)

[ii) - Diarrhoea](http://revision.co.ke/)

[-Dysentery/bloody dung](http://revision.co.ke/)

[-Emaciation](http://revision.co.ke/)

[- Ruffled feathers](http://revision.co.ke/)

[-Dullness and drooping wings](http://revision.co.ke/)

[-Sudden death (5 x 1= 5 marks)](http://revision.co.ke/)

[iii) -Use coccidiostats drugs](http://revision.co.ke/)

[-Isolate sick animals](http://revision.co.ke/)

[-Treat sick animals](http://revision.co.ke/)

[-Hygiene](http://revision.co.ke/)

[-Avoid overcrowding](http://revision.co.ke/)

[-Avoid mixing animals from different herds. (4 x 1= 4 marks)](http://revision.co.ke/)

1. [-Maintain livestock health by keeping away strange animals.](http://revision.co.ke/)

[-Control parasites and diseases.](http://revision.co.ke/)

[-Isolate sick animals in the farm.](http://revision.co.ke/)

[-Control breeding.](http://revision.co.ke/)

[-Control/restrict animal movement](http://revision.co.ke/)

[. -Facilitate rotational grazing. (5 x 1= 5 marks)](http://revision.co.ke/)

1. [-Assemble equipments -Dress appropriately.](http://revision.co.ke/)

[-Light the smoker.](http://revision.co.ke/)

[-Approach hive quietly from the back.](http://revision.co.ke/)

[-Smoke 2-3 puffs around the hive.](http://revision.co.ke/)

[-Open lid using hive tool.](http://revision.co.ke/)

[-Inspect honey combs.](http://revision.co.ke/)

[-Cut honey combs leaving 3cms strip.](http://revision.co.ke/)

[-Put honey combs in containers free from iron and copper elements.](http://revision.co.ke/)

[-Return the top bars.](http://revision.co.ke/)

[-Replace the lid. (5 x 1= 5 marks](http://revision.co.ke/)

1. [-Drench against internal parasites.](http://revision.co.ke/)

[-Spray or dip to control external parasites.](http://revision.co.ke/)

[-Vaccinate against prevalent diseases.](http://revision.co.ke/)

[-Graze lambs on good pasture/rotational grazing.](http://revision.co.ke/)

[-Give supplementary feeds and minerals.](http://revision.co.ke/)

[-Trim overgrown hooves.](http://revision.co.ke/)

[-Flush two weeks before tupping.](http://revision.co.ke/)

[-Cull poor ones.](http://revision.co.ke/)

[-Crutch -Provide clean water adlib](http://revision.co.ke/)

[-Treat sick ones.](http://revision.co.ke/)

[-Shear wool before tupping.](http://revision.co.ke/)



[c) -Sudden changes in routine.](http://revision.co.ke/)

[-Presence of strangers in the unit.](http://revision.co.ke/)

[-Vermin](http://revision.co.ke/)

[-Too much handling of birds.](http://revision.co.ke/)

[-Poor hygiene.](http://revision.co.ke/)

[-Diseases -Climatic change -Overcrowding -Lack of food and water. -Introducing new birds in the](http://revision.co.ke/) [flock. (5 x 1= 5m](http://revision.co.ke/)