OPENER EXAMINATION: TERM 1 2024

AGRICULTURE FORM 2

TIME:1 HR 45 MINS



MARKING SCHEME

INSTRUCTIONS:

- u nsw	er all questions in section A and B in the spaces provided after the question.	
.co.ke/1	3	(5mks)
her	a) Young castrated male cattleSTEER	
Download this and other FREE materials from https://teacher.co.ke	b) Young one of cattle calf	
ı https:	c) Young female of pig from weaning up to first parturition	
ls from	d) A mature male pig Boar	
rial	e) A mature male bird	
iate	Cock	
<u>=</u> 2.	State four uses of farm records.	(4mks)
KE.		
erl	Show history of the farm	
oth -	Help in assessment of income tax	
pu -	Determines value of the farm	
is a	Support insurance claims	
d th -	Settle dispute among heirs	
ار 3.	State the importance of the following in the preparation of compost manure	. (4mks)
WI	a) Well rotter manure	()
ے ا	Provide food to bacteria/micro-organisms	
	b) Wood ash	
-	To improve level of phosphorous and potassium	
	c) A layer of top soil	
-	Introduce micro- organism	
	d) Water	
-	To moisten materials for better decomposition	
4.	1	(4mks)
-	To raise soil temp	
-	To remove toxic substances To increase microbial activities	
-	To increase soil volume	
-	To increase soil accretion	
-	To reduce soil erosion	
_	TO TENDE SOIL CLOSION	
5.	. Mention four importance of water treatment on the farm.	(4mks)

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Method of storage
Age of farmyard manure

Age of the animal

to remove chemical impurities to remove smells and bad taste To remove sediments of solid particles. 6. State four importance of secondary cultivation (4mks) Remove weeds germinating after primary cultivation To break soil clods To level the filed To incorporate organic matter Differentiate between the following (i) Apiculture and pomology. (2mks) Apiculture – bee keeping Pomology- fruit growing (ii) Olericulture and pastoralism (2mks) Olericilture- growing of vegetables Pastoralism - keeping of mammals Name four biotic factors that affect agriculture negatively. (4mks) **Pests Pathogens** Some predators parasites 9. State four factors influencing soil formation. (4mks) **Parent material** Climate **Topography** Living organisms Time 10. Write down the stages involved in process of water treatment. (6mks) Filtration at intake Softening **Coagulation and sedimentation Filtration** Chlorination **Storage** 11. State four factors determining quality of farm yard manure. (4mks) Type of animal used Type of food eater Type of litter used

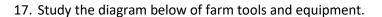
	- - -	French drains Underground drain pipes Pumping Planting trees	
cher.co.ke/notes	13.	State three physical properties of soil. Colour Texture Structure	(3mks)
https://tea	14.	State four methods of farming Agroforestry	(4mks)
Download this and other FREE materials from https://teacher.co.ke/notes		Organic farming Nomadic pastoralism Shifting cultivation Mixed farming	
ind oth	15.	State two aspects of light influencing crop growth.	(2mks)
Download this a	-	Light intensity Light duration Light wavelength/quality	
	16.	SECTION B (40MKS) Use the diagram below to answer the questions.	
	-	a) State the aim of the experiment.To show that soil contains active living organism.	(1mk)
	- -	b) State the expected results after 24 hours in flask A and B.A: lime water turned milkyB: Lime water- remained clear	(2mks)
		c) Explain the reason for the observation made after 24 hours. Download this and other FREE revision materials from https://teacher.	(2mks)

12. State four methods of drainage on the farm.

Open ditches Cambered beds



B. Organisms were killed by heat, hence n CO2 released.





a) Give the names of tools X, Y and Z.

(3mks)

X- dehorning Iron

Y- Rubber ring

Z- pruning saw

b) State the function of tools V and W

(2mks)

V: Checking mastitis in milk

W: making holes for transplanting seedlings

c) State five reasons for maintain farm tools and equipment.

(5mks)

To avoid injury to the user

To avoid damage to the tool

To increase durability

To reduce replacement cost

To increase efficiency

18. (a) State the three basic economic concepts.

(3mks)

Scarcity

Preference and choice

Opportunity cost

(b) Name the two types of labour records.

(2mks)

Muster roll

Labour utilization analysis

19. Study the diagram below and answer the questions.

	(a) Identify the part labelled P and Q. P- Rump	(2mks)	
	Q - belly		
	(b) State three reasons why farmers keep rabbits.for meat supplyFor furFor dropping (manure)	(3mks)	
20. - - - -	Romney marsh Corriedale Hampshire down	(2mks)	
-	- Dorper	(2mks)	
- 21.	© Name a breed of pig that is pure black in colour. - Duroc Jersey 21. Use the diagram below to answer the questions.	(1mk)	
	(a) Identify the type of soil structure C and D.C- ColumnarD- Prismatic	(2mks)	
- - -	- Cover cropping	(3mks) E revision materials from https://teacher.co.ke/not	tes

- Minimum tillage
- Application of lime
- Overstocking/over grazing



22. State five importance of primary cultivation.

(5mks)

- To bury organic matter
- Facilitate water infiltration
- Promote aeration
- Remove weeds
- Destroy soil borne pests
- 23. State five reasons for minimum tillage.

(5mks)

- To reduce cost of cultivation
- To control soil erosion
- To maintain soil structure
- To conserve moisture
- To prevent root disturbance
- To prevent exposure of humans

