Principles and practices Of Agriculture.

PAPER 3 MOCKS 2024

AUGUST



## **MEBU EXAMINATIONS CONSULT**

## Uganda Advanced Certificate Of Education MOCK EXAMINATIONS 2024

Principles & Practices of Agriculture.

PAPER 3

(PRACTICAL)

Time: 2 Hours

## INSTRUCTIONSTOCANDIDATES

This paper consists of five questions.

Answer all questions.

The answers are to be written in the spaces provided.

FOR EXAM	FOR EXAMINER'S USE ONLY
QUESTIONS	MARKS
1	
2	
3	
4	
5	
TOTAL	

@2024 MEBU MOCKS

Page 1 of 6

**Turn Over** 

b). Mention three reasons for having the above named structure on the farm.  (3 marks)  (b). Describe the procedure of using the specimens to carry out the named operation.  (3 marks)  (4). Describe the adaptions of the following specimens to their functions.  (3 marks)  (4). Describe the adaptions of the following specimens to their functions.  (5 marks)  (6). Describe the adaptions of the following specimens to their functions.  (6). The specimen Prina cylinder.  (7). The specimen Prina cylinder.  (8). You are provided with specimens P and Q which are a common animal product. Measure 60 cm <sup>3</sup> of specimen Prina cylinder.  (9). The specimen Prina cylinder.  (1). The specimen Prina cylinder.  (2). The specimen Prina cylinder.  (3). The specimen Prina cylinder.  (4). The specimen Prina cylinder.  (5). The specimen Prina cylinder.  (6). The specimen Prina cylinder.  (7). The specimen Prina cylinder.  (8). The specimen Prina cylinder.  (9). The specimen Prina cylinder.  (1). The specimen Prina cylinder.  (1). The specimen Prina cylinder.  (2). The specimen Prina cylinder.  (3). The specimen Prina cylinder.  (4). The specimen Prina cylinder.  (5). The specimen Prina cylinder.  (6). The specimen Prina cylinder.  (7). The specimen Prina cylinder.  (8). The specimen Prina cylinder.  (9). The specimen Prina cylinder.  (10). The specimen Prina cylinder Prina cylinder.  (11). The specimen Prina cylinder	a). Name the operation where they are used.		(1 mark)
9.Describe the procedure of using the specimens to carry out the named operation.  (3 marks)  3.  2.  3.  You are provided with specimens P and Q which are a common animal product. Measure 60cm <sup>3</sup> of pecimen Pinacylinder.  1.  2.  3.  You are provided with specimens P and Q which are a common animal product. Measure 60cm <sup>3</sup> of becimen Pinacylinder.  (2 marks)  (2 marks)  (3 marks)	b).Mention three reasons for having the above name	d structure on the farm.	arks)
1). Describe the adaptions of the following specimens to their functions.  (3 marks)  2.  3.  You are provided with specimens P and Q which are a common animal product. Measure 60cm <sup>3</sup> of pecimen Pina cylinder.  1) Immerse the lactometer into the specimen with the bulb end at the bottom. Repeat the procedure to btain the readings for specimen Q and record your observations.  (2 marks)	.).Describe the procedure of using the specimens to	сагту out the named operation.	(3 marks)
1). Describe the adaptions of the following specimens to their functions. (3 marks)  1. 2. 3. 3. 4. You are provided with specimens P and Q which are a common animal product. Measure 60cm <sup>3</sup> of pecimen P in a cylinder.  5) Immerse the lactometer into the specimen with the bulb end at the bottom. Repeat the procedure to btain the readings for specimen Q and record your observations. (2 marks)  7. Posecimen P			
2. 3. 4. You are provided with specimens P and Q which are a common animal product. Measure 60cm <sup>3</sup> of pecimen Pina cylinder.  becimen Pina cylinder.  1. Immerse the lactometer into the specimen with the bulb end at the bottom. Repeat the procedure to btain the readings for specimen Q and record your observations.  (2 marks)  pecimen P	Describe the adaptions of the following specime:	as to their functions.	(3 marks)
You are provided with specimens P and Q which are a common animal product. Measure $60 \text{cm}^3$ of pecimen Pinacylinder.  Immerse the lactometer into the specimen with the bulb end at the bottom. Repeat the procedure to btain the readings for specimen Q and record your observations.  (2 marks)	2		
. You are provided with specimens P and Q which are a common animal product. Measure 60cm <sup>3</sup> of pecimen Pina cylinder.  Jumerse the lactometer into the specimen with the bulb end at the bottom. Repeat the procedure to btain the readings for specimen Q and record your observations.  (2 marks)  pecimen P	3.		
) Immerse the lactometer into the specimen with the bulb end at the bottom. Repeat the procedure to btain the readings for specimen Q and record your observations.  (2 marks) pecimen P	. You are provided with specimens P and Q which pecimen Pinacylinder.	ı are a common animal product. M	asure 60cm <sup>3</sup> of
pecimen P	Immerse the lactometer into the specimen wit btain the readings for specimen Q and record your or	h the bulb end at the bottom. Repe observations.	to the procedure to (2 marks)
	pecimen P		

1. You are provided with specimens K1 to K6.

**Turn Over** 

Page 2 of 6

@2024 MEBU MOCKS

 $(b). To \, 60 cm^3 \, of \, specimen \, P \, in \, a \, cylinder, \, add \, one \, spatula \, \, endful \, of \, Specimen \, R. \, Stir \, \, to \, mix \, uniformly \, constant \, const$ and leave the mixture to stand for 2 minutes. Pour the mixture into a funnel lined with a filter paper, placed onto the measuring cylinder. Allow the setup tostand for 5 minutes and record your observations in the (1 mark) (2 marks) (2 marks) (1 marks) (3 marks) Volume of solid Volume of filtrate c).i)Statethe effectofaddingspecimenRtothemilksamples. Follow the steps above to obtain results for specimen Q. (a). Namethe product prepared from the specimens. (iii). State four factors that affect milk composition. ii) Explain your results obtained for both specimens.  $3.\ You are provided with specimens T1 to T4.$ Specimen table below. 0 **Turn Over** 

Specimen Q:

**Turn Over** 

Page 3 of 6

@2024 MEBU MOCKS

Page 6 of 6

**@2024 MEBU MOCKS** 

(b).Describe the procedure of using th	(b).Describe the procedure of using the specimens to obtain the above named product.	duct. (4 marks)	d).i)Name the physiological process demonstrated in the experiment.	ted in the experiment.	(1 marks)
			ii) State three importance of the above named physiological process in plant growth.	hysiological process in plant gr	owth. (3 marks)
(c).State four factors that influence qu	(c).State four factors that influence quality of the product obtained from the specimens. (2	cimens. (2 marks)			
			5. You are provided with specimens L1 and L2. Measure 50cm <sup>3</sup> of specimen L1 and put it into a funnel lined with a filter paper which has been placed onto a measuring cylinder. Add 60cm <sup>3</sup> of water and	Measure 50cm <sup>3</sup> of specimen L ed onto a measuring cylinder.	.1 and put it into a funnel Add 60cm <sup>3</sup> of waterand
(d).Givethree advantages of using the	(d). Givethree advantages of using the above mentioned product in crop fields.	(3 marks)	start the stop clock. Record your observations in the table below.Repeat the steps to obtain results for soil sample L2.	in the table below.Repeat the	e steps to obtain results for (3 marks)
			Specimen Volume of water col	Volume of water collected after every 30 seconds	
4. Obtain 5 mls of each solution of Sl, cut out 3 cylinders of 3cm long frc solutions. Allow the setupto stand f	4. Obtain 5 mls of each solution of SI, S2 and S3 respectively in separate 10mlsfunnels. Use a cork borerto cut out 3 cylinders of 3cm long from specimen Z and immerse them into the three respective solutions. Allow the setupto stand for 20 minutes. Remove the tissues and measure their length again.	nnels. Usea corkborerto o the three respective sure their length again.	30 L1 L2	06 09	120
a) Record your results below. Length of tissue from;	oftissuefrom;	(3marks)	Present your information on a graph.		(3 marks)
S2.			Explain your results.		(3 marks)
(b).Explain your results.		(3 marks)			
			State two ways of modifying drainage for soil sample L.1.	ample L1.	(1 mark)
(c).Identify the field conditions whic	(c).Identify the field conditions which can cause similar conditions as observed in each tissue from	d in each tissue from			
respective solutions.		(2 marks)			
S3.				END	
@2024 MEBU MOCKS	Page 4 of 6	Turn Over	@2024 MEBU MOCKS Pag	Page 5 of 6	Turn Over