## THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL CERTIFICATE OF SECONDARY EDUCATION EXAMINATION

034/2

## AGRICULTURAL SCIENCE 2 PRACTICAL

(For School Candidates Only)

TIME: 2% Hours

Wednesday morning 24/10/2007

## Instructions

- This paper consists of three (3) questions.
- 2. Answer two (2) questions
- 3 Each question carries 25 marks
- Read the instructions for each question carefully before you start answering it.
- Cellular phones are not allowed in the examination room.
- Electronic calculators are not allowed in the examination room.
- 7. Write your Examination Number on every page of your answer booklet(s).



This paper consists of 3 printed pages.

- You are provided with specimens S<sub>1</sub>, S<sub>2</sub>, S<sub>3</sub>, E<sub>1</sub>, E<sub>2</sub>, E<sub>3</sub> and E<sub>4</sub>. Observe them carefully and then answer the following questions.
  - (a) Identify each of the specimens S1, S2, S3, E1, E2, E3 and E4 (31/2 marks)
  - (b) A soil sample consists of 40% of S<sub>1</sub>, 40% of S<sub>2</sub> and 20% of S<sub>3</sub>. State the name of this soil sample. (2½ marks)
  - (c) (i) Which soil specimen is most difficult to cultivate? (2 marks)
    - (ii) Which soil specimen is nighly aerated? (2 marks)
  - (d) (i) State the functions of each of the specimens E<sub>1</sub>, E<sub>2</sub>, E<sub>3</sub> and E<sub>4</sub>.

    (4 marks)
    - (ii) Why is it not advisable to apply oil on specimen E<sub>4</sub>? (2 marks)
    - (iii) Name five (5) shapes on which specimen E<sub>4</sub> can be made. (5 marks)
    - (iv) State a good way of storing specimen E<sub>4</sub> in a farm workshop.

      (2 marks)
    - (v) Name four (4) types of specimen E<sub>4</sub> in terms of roughness.
      (2 marks)
- 2. You are provided with specimens  $C_1$ ,  $C_2$ ,  $C_3$ ,  $C_4$ ,  $C_5$  and  $C_6$ . Observe them carefully and answer the following questions:
  - (a) State the common name and the botanical name of each of the specimens  $C_1$ ,  $C_2$ ,  $C_3$  and  $C_6$ . (4 marks)
  - (b) (i) State the mode of propagation of specimens  $C_1$ ,  $C_2$  and  $C_5$ .

(3 marks)

- (ii) State the best soil type for growing C<sub>2</sub>. (1 mark)
- (iii) What is the most commonly grown variety of C<sub>2</sub>? (1 mark)
- (iv) Name six (6) pests of C<sub>2</sub>. (6 marks)
- (v) Name the disease that affects C<sub>2</sub> and state the way it can be controlled. (2 marks)
- (c) Refer to specimen C<sub>3</sub>
  - (i) State the most common disease that affects the plants of this specimen. (2 marks)
  - (ii) How is this specimen harvested and processed before it is stored?
    (2 marks)

	(d)	(i)	Name the crop which specimen C <sub>4</sub> infects.	(1 mark)
		(ii)	How is C <sub>4</sub> controlled?	(1 mark)
	(e)	(i)	C <sub>5</sub> appears in various varieties. Name the variety of C	C <sub>5</sub> given. (1 mark)
		(ii)	Name two (2) pests of C <sub>1</sub> .	(1 mark)
3.		re prov	ided with specimens L <sub>1</sub> , L <sub>2</sub> , L <sub>3</sub> , L <sub>4</sub> , L <sub>5</sub> , L <sub>6</sub> , L <sub>7</sub> and L <sub>8</sub> . then answer the following questions:	Observe them
	(a)	Identi	fy each of the specimens $L_1$ , $L_2$ , $L_3$ , $L_4$ , $L_5$ , $L_6$ , $L_7$ and	L <sub>8</sub> . (4 marks)
	(b)	State	the functions of: (i) $L_1$ (2 marks) (ii) $L_4$	(2 marks)
	(c)	State body.	the function of each of the specimens L5, L6 and L7 in	the animal (9 marks)
	(d)		ich specimen is S <sub>8</sub> found?	(2 marks)
	(e)	(i)	Name four (4) components present in specimen L <sub>3</sub>	(4 marks)
		(ii)	Name two (2) components present in L <sub>2</sub> .	(2 marks)
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