### Candidate's Examination No....

# THE UNITED REPUBLIC OF TANZANIA MINISTRY OF EDUCATION AND VOCATIONAL TRAINING FORM TWO SECONDARY EDUCATION EXAMINATION, 2011

0034

AGRICULTURAL SCIENCE

TIME: 2 HOURS

#### INSTRUCTIONS

- 1. This paper consists of sections A and B.
- 2. Answer ALL questions.
- 3. Read the instructions given under each section carefully.
- 4. **ALL** answers must be written in the spaces provided.
- 5. Write your examination number at the top right corner of every page.
- 6. ALL writing should be in black or blue ink.
- 7. Cellphones and calculators are not allowed in the examination room.

| FOR EXAMINER'S USE ONLY |             |                      |  |  |  |  |  |  |
|-------------------------|-------------|----------------------|--|--|--|--|--|--|
| QUESTION NUMBER         | SCORE       | INITIALS OF EXAMINER |  |  |  |  |  |  |
| 1                       |             |                      |  |  |  |  |  |  |
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| 9                       | Manager III |                      |  |  |  |  |  |  |
| 10                      |             |                      |  |  |  |  |  |  |
| TOTAL                   |             | ,                    |  |  |  |  |  |  |

This paper consists of 8 printed pages.

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# SECTION A (30 MARKS)

- 1. The following statements are either correct or not correct. Write **TRUE** for the correct statement or **FALSE** for the statement that is not correct.
  - (i) One of the advantages of Agricultural Science is that it does not need a laboratory for conducting experiments. .....
  - (ii) Herbicides are chemicals which are toxic to weeds. .....
  - (iii) Hybrid poultry birds which are bred purposely for meat production are called broilers. .....
  - (iv) The possession of rights to the use of land under specified conditions is called land reform.
  - (v) Once an accident occurs on the farm, the victims have to be given immediate medical assistance known as First Aid. .....
  - (vi) Soil pH, soil texture, soil density, soil profile and soil colloids are physical properties of soils. .....
  - (vii) Good house keeping is not a necessary safety precaution in a farm workshop. .....
  - (viii) The major challenge facing horticultural producers and transporters is the perishability nature of the horticultural products. ......
  - (ix) Free range poultry keeping system is good for poultry keepers living in highly populated cities and towns. ......
  - (x) The possibility of getting no harvests from your farm in a given farming season can be controlled through crop diversification.

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2. Match the items in Set A with those in Set B by writing the correct letter below the corresponding question number in the table provided.

|        | SET A   | SET B   |  |  |  |
|--------|---|---|--|--|--|
| (i)    | Action of looking after chicks (  | A. Amaranthus hybridus  |  |  |  |
| (ii)   | A farming system where only crops are produced                          | B. Animals are freely available C. Arable farming                   |  |  |  |
| (iii)  | An advantage of animal power over tractor power                         | D. Capital E. Cat   |  |  |  |
| (iv)   | A method of regulating  | F. Chick feeding  |  |  |  |
| (v)    | temperature in gardens ↑ A ruminant farm animal ৸                       | G. Chick rearing H. Cow   |  |  |  |
| (vi)   | A scientific name for local spinach A                                   | <ul><li>I. Culling</li><li>J. Flat lands with light soils</li></ul> |  |  |  |
| (vii)  | Conditions for successful oxenization                                   | K. Hard soils with sloppy lands<br>L. Labour                        |  |  |  |
| (viii) | Human efforts used in the   | M. Monocropping   |  |  |  |
| (ix)   | production process \( \subseteq \text{Removing unproductive animals} \) | N. Mulching O. Profit   |  |  |  |
| 4.4    | in a herd \( \)   | P. Rent   |  |  |  |
| (x)    | Returns for land use?   | Q. Solanum melongena R. Uses simple technology                      |  |  |  |
|        | the State of the last   | S. Weeding  |  |  |  |
|        |   | T. Yoke harness   |  |  |  |

#### **ANSWERS**

| SET A | (i) | (ii) | (iii) | (iv) | (v) | (vi) | (vii) | (viii) | (ix) | (x) |
|-------|-----|------|-------|------|-----|------|-------|--------|------|-----|
| SET B |     |      |       |      |     |      |       | 1      | 1000 |     |

- 3. Write the letter of the correct answer in the box provided.
  - (i) The recommended time to transplant tomato seedlings is:
    - A. at night
    - B. in the evening
    - C. mid-day
    - D. in the morning.
  - (ii) The action of growing a different type of crop on the same piece of land in successive seasons is known as:
    - A. crop rotation
    - B. relay cropping
    - C. sedentary farming
    - D. shifting cultivation.

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(v) If you want to keep thousands of poultry birds. .....

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| 6. | Bi | riefly e<br>llowing | xplain the economic importance of livestock in Tanzania. Use the g sub-headings:  |
|----|----|---------------------|---|
|    |    | (i)                 | Source of food to man   |
|    |    |                     |   |
|    |    |                     |   |
|    |    |                     |   |
|    |    | (ii)                | Source of farm power  |
|    |    |                     |   |
|    |    |                     |   |
|    |    | (iii)               | Provision of employment for many people   |
|    |    |                     |   |
|    |    |                     |   |
|    |    | (iv)                | Provision of industrial raw materials   |
|    |    |                     |   |
|    |    |                     |   |
|    |    | (v)                 | Social uses   |
|    |    |                     |   |
|    |    |                     |   |
|    | 7. | With control the f  | out using mechanical, biological or chemical methods of weed rol, explain five other ways which can be used to control weeds in farm. |
|    |    | (i)                 |   |
|    |    |                     |   |
|    |    |                     |   |
|    |    | (ii)                |   |
|    |    | (11)                |   |
|    |    |                     |   |
|    |    |                     |   |
|    |    | (iii)               |   |
|    |    |                     |   |
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|    |    | (iv)  |  |  |
|    |    | (IV)  |  |  |
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|    |    |       |  |  |
|    |    | (v)   |  |  |
|    |    | (*)   |  |  |
|    |    |       |  |  |
|    |    |       |  |  |
|    |    |       |  |  |
|    | 8. | Wr    | ite common names for each of the following weeds:                          |  |
| -  |    | (i)   | Cyperus rotundus   |  |
|    |    | (ii)  | Bidens pilosa  |  |
|    |    | (iii) | Imperata cyclindrica   |  |
|    |    | (iv)  | <u>Digitaria</u> scalarum  |  |
|    |    | (v)   | Cynodon dactylon   |  |
|    |    |       |  |  |
|    | 9. |       | atline the function of each of the following pipe fittings as used in      |  |
|    | *  | plı   | imbing:  |  |
|    |    | (i)   | Coupling   |  |
|    |    | (-)   |  |  |
|    |    |       |  |  |
|    |    | 4     |  |  |
|    |    | (ii)  | Elbows   |  |
| 4  |    |       |  |  |
|    |    |       |  |  |
| 50 |    | (iii) | Tees   |  |
|    |    |       |  |  |
| 9  |    |       |  |  |
|    |    | (ivr) | Nipples  |  |
|    |    | (IV)  |  |  |
|    |    |       |  |  |
|    |    |       |  |  |
|    |    | (v)   | Pipe valves  |  |
|    |    |       |  |  |
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|    |    |       |  |  |
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|     |         |             |               | Cana           | lidate's Ex    | amination    | No  |  |
|     | Chala   | five for    | ro that       |                |                |              |     |  |
| 10. |         |             |               | cause a ch     |                | mand for go  | oat |  |
|     | (i)     |             |               | Dodoma         |                |              |     |  |
|     | (4)     |             |               |                |                |              |     |  |
|     | (ii) .  |             |               |                |                |              |     |  |
|     |         |             |               |                |                |              |     |  |
|     | (iii) . |             |               |                |                |              |     |  |
|     |         |             |               |                |                |              |     |  |
|     | (iv)    |             |               |                |                |              |     |  |
|     |         |             |               |                |                |              |     |  |
|     | (v)     |             |               |                |                |              |     |  |
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