## PERFECT STEPS PUBLISHERS

END TERM EXAMS 2015

**0721 745374/ 0721 707626 NAIROBI**

**NAME..............................................................................................ADM........................................**

**AGRICULTURE EXAMINATION FORM THREE**

**Section A (80 marks)**

***Answer all the questions in this section in the spaces provided***

1. List three methods of treating water for use on the farm

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1. State two disadvantages of plastic pipes

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1. State four disadvantages of communal land tenure system

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1. Give two ways in which gabions control soil erosion

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1. List two types of farm structures that are used in propagation of plants .................................................................................................................................................................................................................................................................................................................................................................................................................................................... (2mks)
2. Give two forms in which nitrogen is absorbed from the soil by crops

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1. Give a reason for carrying out Pricking out on nursery bed.

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1. Study the table below and fill in the missing words ( 3mks)

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Cattle | Pigs | Poultry |
| Young from birth/ hatching to weaning | ……….. | ………….. | Chick |
| Young female before first parturition | ……….. | Gilt | ………… |
| Mature male for breeding | Bull | …………. | ………….. |

9 Name two viral diseases that affect each of the following livestock:

(a) Cattle ................................................................................ (1mk)

(b) Poultry.......................................................................................................(1mk)

10a) Give four reasons for feeding a lamb with colostrums

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b) State four advantages of artificial insermination

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11a) Why is raddling essential in sheep management

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b) Give four reasons for steaming up in dairy cattle management

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1. Give two reasons for maintaining a wheelbarrow in good working condition

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1. a) Differentiate between crutching and ringing

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1. State four ways of restraining cattle during routine management

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What is meant by the following terms as used in livestock health:

 a)Incubation period

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 b) Mortality rate ...............................................................................................................................(1mk)

1. Give four reasons for rearing indigenous cattle in marginal areas

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1. a) State four major factors considered when designing a crop rotation programme

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b) Define the term seed inoculation as used in crop production

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***SECTION B ( 20 MARKS*  *Answer ALL the questions in this section in the spaces provide***

18 The diagram below illustrates a hoof of a sheep. Study it carefully and answer the questions that follow.



1. Name the routine management practice that should be carried out on the hoof illustrated

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(b) State two reasons for carrying out the management practice in (a) above ........................................................................................................................................................................................................................................................................................................................................................................ (2mks)

c) Give two tools which can be used to carry out the management practice in (a) above

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**19** The diagram below illustrates a final seedbed after tertiary operation done during land

 preparation. Study it carefully and answer the questions that follow.

(a) Name the tertiary operation carried out on the seedbed

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 (b) State three advantages of the tertiary operation indicated above .............................................................................................................................................................................................................................................................................................................................................(3mks)

c) State one other tertiary operation which may be carried out during land preparation

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 (d) Give two advantages of planting crops on the final seed back illustrated above .........................................................................................................................................................................................................................................................................................(2mks)

20 What is the function of each of the following ingredients in the preparation of compost manure?

 (a) Wood ash................................................................................................................(1mk)

 (b) Top Soil..................................................................................................................(1mk)

 (c) well rotten organic manure.....................................................................................(1mk)

 (d) State four characteristics of fertile soil............................................................... (4mks)

**SECTION C ( 20 MARKS) *Attempt one Question only from this section***

21 **(**a)Explain five factors that a farmer should consider when sitting a bee hive to

 prevent swarming of bees

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 (b) Describe ten safety precautions that should be taken when using herbicides to control

 Weed....................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................... (**10mk)**

 22 (a) A farmer wanted to prepare a 200kg of calf rearing ration containing 20% DCP. Using

the Pears Square Method, calculate the amount of Maize containing 10% DCP and

Sunflower containing 35% DCP the farmer would need to prepare the ration. (Show your

 work) (4mks)

 b) Discuss Foot and Mouth disease under the following headings:

 (i) Casual organisms......................................................................(1mk)

 (ii) Livestock species attacked ..........................................................................................................................(2mks)

 (iii) Symptoms of attack. (4mks)

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 (iv) Control measures. (3mks)

 c) Explain the factors that influence the type of irrigation to be used in a farm (6mks).

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