## 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

................................................................................................................................................................................................................................................................................................(3mks)

1. State two disadvantages of plastic pipes

..................................................................................................................................................................................................................................................................................................(2mk)

1. State four disadvantages of communal land tenure system

......................................................................................................................................................................................................................................................................................................................................................................................................................................................(4mks)

1. Give two ways in which gabions control soil erosion

..............................................................................................................................................................................................................................................................................................(2mk)

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

.................................................................................................................................................................................................................................................................................................................................................................................................................................................... (2mks)

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

..................................................................................................................................................................................................................................................................................................(1mk)

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

................................................................................................................................................................................................................................................................................................................................................................................................................................................(2mks)

b) State four advantages of artificial insermination

........................................................................................................................................................................................................................................................................................................................

.......................................................................................................................................................................................................................................................................................................................................................................................................................................................................(2mks)

11a) Why is raddling essential in sheep management

......................................................................................................................................................................................................................................................................................(1mk)

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

.............................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................. (4mks)

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

............................................................................................................................................................................................................................................................................................. (1mks)

1. a) Differentiate between crutching and ringing

..........................................................................................................................................................................................................................................................................................................................................................................................................................(2mks) b) State two reasons why castration is carried out

.............................................................................................................................................................................................................................................................................................................................................................................................................................................................................(1mk)

1. State four ways of restraining cattle during routine management

............................................................................................................................................................................................................................................................................................................(2mk)

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

a)Incubation period

.......................................................................................................................................................................................................................................................................(1mk)

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

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

...............................................................................................................................................................................................................................................................................................................................................................................................................................................................(2mks)

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

...........................................................................................................................................................................................................................................................................................................................................................................................................................................................................(4mks)

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

............................................................................................................................................................................................................................................................................................................(2mk)

***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

...................................................................................................................................................................................................................................................................................... (2mks)

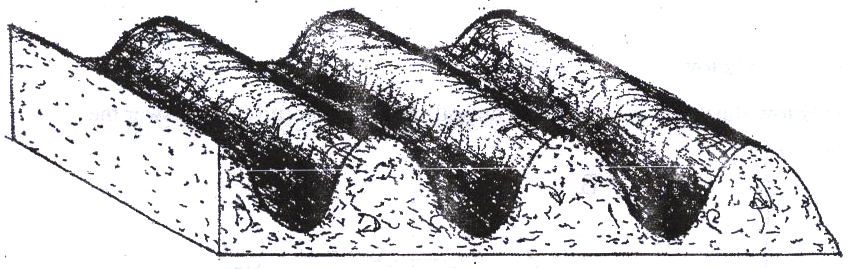
(b) State two reasons for carrying out the management practice in (a) above ................................................................................................................................................................................................................................................................................................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

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

...............................................................................................................................................................................(2mk)

**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

...........................................................................................................................................(1 mk)

(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

.......................................................................................................................................(1mk)

(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

.........................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................**(10 mks)**

(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)

...........................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

(iv) Control measures. (3mks)

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

.........................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................6mks

PRINTED AND COMPILED BY PERFECT STEPS PUBLISHERS: 0721 745374/0721707626 NAIROBI