***Name……………………………………………………………………………..IndexNo…………………………………….Class………..***

**443/1**

**AGRICULTURE**

**PAPER 2**

**KASSU 1 EXAMINATION – 2018**

**2 HOURS**

**KASSU EXAMINATION**

**AGRICULTURE**

**Paper 1**

**2 Hours**

**Instructions to candidates.**

*1 Write your name and Index number in the spaces provided above.*

*2 This paper consists of three sections:* ***A, B*** *and* ***C.***

*3 Answer all questions in sections* ***A*** *and* ***B*** *and any other question from section* ***C****.*

*4 Do not any pages from the question paper.*

*5 Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing. Number of printed pages are 12.*

**For Examiner’s use only**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Section** | **Questions** | | **Maximum Score** | **Candidate’s Score** |
| **A** | **1 -17** | | **30** |  |
| **B** | **18- 21** | | **20** |  |
| **C** | **22 – 24** | | **20** |  |
|  | | **20** |  |
| **TOTAL** | **90** |  |

**Section A (30 Marks)**

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

1 Name four dual purpose breeds of cattle. (2mks)

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2 Give the characteristics that distinguishes N ewzealand white breed of rabbit from Kenya white. (1mk)

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3 (a) What is line-breeding? (1mk)

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(b) Why do animal breeders sometimes opt for line breeding? ( ½ mk)

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4 Name two tractor-drawn implements that are attached to the draw-bar. (1mk)

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5 Give two uses of a foot bath in a plunge dip. (1mk)

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6 State three signs of heat in a doe (female rabbit). (1 ½ mks)

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7 Give two reasons for “***crutching***” in sheep. (2mks)

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8 Outline four signs of parturition in a dairy cow. (2mks)

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9 Outline four disadvantages of free range system of poultry rearing. (2mks)

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10 (a) Give four reasons for steaming up a dairy cow. (2mks)

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(b) State three functions of vitamins in livestock nutrition. (1 ½ mks)

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11 Give three reasons why raddling is done in sheep. (1 ½ mks)

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12 (a) List three methods used to extract honey from combs. (1 ½ mks)

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(b) Outline three reasons why tilapia fish is commonly kept by fish farmers in Kenya. (1 ½ mks)

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13 Outline two reasons for liming fish ponds. (1mk)

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14 Give a reason why sheep should be sheared during the dry season. (1mk)

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15 List four methods of identification in dairy cattle. (2mks)

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16 (a) State two practices carried out on eggs before they are put in an incubator for hatching. (1mk)

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(b) Give three measures that help control egg – eating in a deep litter system. (1 ½ mks)

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17 (a) Identify the infective stage of a liver fluke. ( ½ mk)

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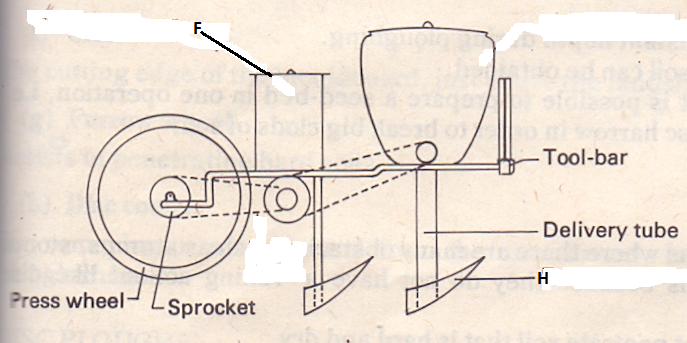
(b) Give two reasons why drenching alone is not an effective method of controlling intestinal parasites in livestock. (1mk)

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**SECTION B (20 Marks)**

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

18 Study the illustration of tractor drawn implement and answer questions that follow.



(a) Identify the implement illustrated above. (1mk)

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(b) Name the parts labeled **F** and **H** illustrated above. (1mk)

**F**…………………………………………………………………………………………………………………………………………

**H…**………………………………………………………………………………………………………………………………………

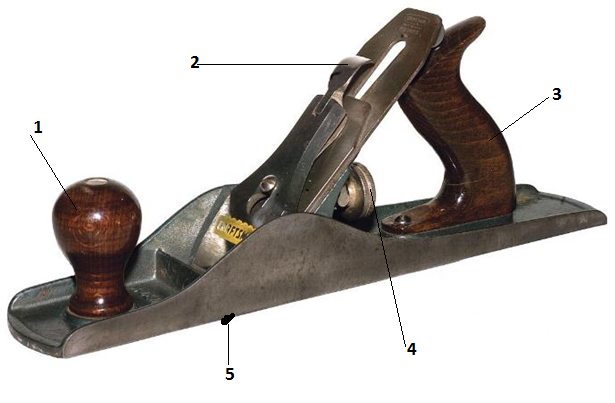
(C ) Give two main uses of the implement above. (1mk)

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(d) Give two maintenance practices carried out on the implement above. (2mks)

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19 The illustration below shows a workshop tool. Study it and answer questions that follow.



(a) Name the parts labeled **1, 2, 3** and **4**. (2mks)

**1**……………………………………………………………………………………………………………………………………………

**2**……………………………………………………………………………………………………………………………………………

**3**…………………………………………………………………………………………………………………………………………..

**4**…………………………………………………………………………………………………………………………………………..

(b) Give one use of the tool illustrated above. (1mk)

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(c ) Give two maintenance practices carried out on the part labeled 5 on the tool above. (2mks)

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20 Study the illustration below and answer questions that follow.



**M**

**L**

**N**

(a) Identify the type of bee hive illustrated above. (1mk)

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(b) State the functions of the parts labeled **L,M** and **N.** (1 ½ mks)

**L**………………………………………………………………………………………………………………………………………….

**M**………………………………………………………………………………………………………………………………………..

**N**………………………………………………………………………………………………………………………………………..

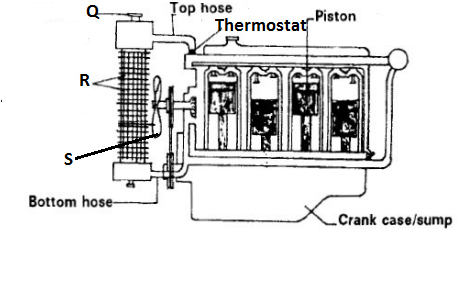
(C )Name the tool used to detach honey combs from the bars during harvesting. ( ½ mk)

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(d) Give two advantages of the type of bee hive illustrated above. (2mks)

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21 The illustration below shows a structure of a tractor cooling system. Study it and answer questions that follow.



(a) Identify the structure. ( ½ mk)

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(b) Name the parts labeled **Q , R** and **S.** ( 1 ½ mks)

**Q**………………………………………………………………………………………………………………………………………

**R**……………………………………………………………………………………………………………………………………….

**S**……………………………………………………………………………………………………………………………………….

(c ) Give three maintenance practices of the system illustrated above. (3mks)

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**SECTION C (40 Marks)**

Answer any Two questions from this section in the spaces provided after every question.

22 (a) Describe how the four stroke cycle engine operates. ( 12mks)

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(b) Outline four functions of the gear box in a tractor. (4mks)

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(c) Give four advantages of biogas as source of power in the farm. (4mks)

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23 (a) Explain calf Pneumonia disease under the following sub-headings.

(i) Give three predisposing factors. (3mks)

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(ii) State five symptoms of the disease. (5mks)

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(iii) Give two control measures of the disease. (2mks)

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(b) Describe ten uses of fences in the farm. (10 mks)

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24 (a) Describe the life cycle of a three –host tick. (6mks)

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(b) Describe the process of training a dairy calf to drink milk from the bucket (5mks)

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(c)Outline six essentials of clean milk production. ( 6mks)

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(d) Explain three causes of cannibalism in a flock of layers. (3mks)

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