NAME………………………………………………………………………………INDEX NUMBER…………………………….

CANDIDATE’S SIGNITURE …………………………………………………DATE…………………………………………….

*@West practice papers-2021*

**AGRICULTURE**

**FORM 4**

**PAPER 2**

**443/2**

**INSTRUCTIONS TO CANDIDATES**

**(a). Write your name and index number in the spaces provided.**

**(b) Sign and write the date of the examination in the spaces provided above.**

**(c). This paper consists of three sections; A, B and C**

**(d) Answer all the questions in section A and B**

**( e) Answer any two questions in section C**

**(f) All the answers should be written in the spaces provided.**

**(g) Candidates should check the questions papers to ascertain that all the pages are printed as indicated and that no questions are missing.**

**(h) Candidate should answer all questions in English.**

**For examiner’s use only**

|  |  |  |  |
| --- | --- | --- | --- |
| **Section** | **Question** | **Maximum score** | **Candidate’s score** |
| **A** | 1. **15** | **30** |  |
| **B** | **16-19** | **20** |  |
| **C** |  | **20** |  |
|  | **20** |  |
| **TOTAL** | **90** |  |

**SECTION A ( 30 Marks )**

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

**1, Give two reasons why docking is an important practice in sheep management. ( 1 mark )**

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**2(a) Name the camel breed that is adapted to cooler regions and has wooly body covering. ( ½ mk)**

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**(b) Give one reason why Fresian’s milk is more whitish while jersey milk is yellowish . ( ½ mk)**

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**(c), Give any two uses of litter materials in a poultry house. ( 1 mark )**

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**3. Give four advantages of using stones as construction materials. ( 2 marks )**

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**4. Outline three methods of stocking a bee hive. ( 1½ mk)**

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**5. List four ways in which vaccines are administered to an animal. ( 2 marks )**

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**6. Give four predisposing factors to livestock diseases. ( 2 marks )**

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**7. Give four functions of proteins in the body of an animal. ( 2 marks )**

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**8, Name the tool used together with each of the following tools. ( 1 mark )**

**(a),Canula(b) Brace**

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**9. Differentiate between flushing and steaming up in livestock management. ( 2 marks )**

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**10. State two roles of drones in a bee colony. ( 1 mark )**

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**11. State two microbial activities that occur in the rumen. ( 1 mark )**

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**12. Name three pests** bees ( 1½ mk**)**

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**13. Name four mineral deficiency livestock disorders. ( 2 marks )**

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**14. What do you understand by the term raddling as used in sheep management. ( 1 mark )**

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**15. Name one intermediate host in life cycle of a liver fluke. ( 1 mark )**

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**16. Give any three maintenance practices in a green house.** ( 1½ mk**)**

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**17, Give two faults of ignition system, ( 1 mark )**

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**18. Give four conditions that the animal structure should meet in order to help in controlling livestock disease. ( 2 marks )**

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**19. Give six signs to show that a cow is on heat. ( 3 marks )**

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**SECTION B ( 20 MARKS )**

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

**20. Study the illustration of fences below and answer the questions that follow.**

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**(a.) Name the type of fences illustrated above. ( 2 marks)**

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**b) Name the correct tool used in maintenance of fence Y. ( 1 mark )**

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**c). State three advantages that fence Y may have over fence X. ( 3 marks )**

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**21, The diagram below represents an implement**

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**i.) Identify the implement. ( 1 mark )**

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**ii). Name the parts labelled E and F give one function of each. ( 2 marks )**

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**iii) State four maintenance practices carried out on the implement shown in the diagram. ( 4 marks)**

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**22. The diagram labelled A and B below shows two types of bee hives. Study them carefully and answer the questions**

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**(i).Identify the types of beehives A and B. ( 2 marks )**

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**(ii). State two advantages of A over B. ( 2 marks )**

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**(iii) Give two maintenance practices for the named bee hives. (2 marks )**

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**(iv) Give one type of bee that make a colony. ( 1 mark )**

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SECTION C ( 40 marks )

**Answer any two questions from this section in the spaces provided.**

**23. (a) Describe eight difference between petrol and diesel tractor engines. ( 8 marks)**

**(b) Describe the principle of a four stroke (four –cycle) petrol engine. ( 12 marks )**

**24. (a). Write short notes on foot and mouth disease under the following sub-headings.**

**(i) Casual organism ( 1 mark)**

**(ii) Mode of transmission ( 1 mark )**

**(iii) Symptoms of attack ( 4 marks )**

**(iv) Control measures ( 4 marks )**

**(b). State five importance of keeping livestock healthy ( 5 marks )**

**(c) State five general method of disease control (5 marks )**

**25. (a) Describe the procedure of establishing a fish pond. ( 10 marks )**

**(b) Describe the life cycle of a three host-tick ( 5 marks )**

**( c ) State five factors affecting digestibility ( 5 marks )**