**Name …………………………………………….....………… Adm No…………… Class…………**

**School ………………………………………………………… Sign………………… Date……………**

**443/2**

**AGRICULTURE**

**PAPER 2**

**DEC 2021**

**TIME: 2 HOURS**

**LANET CLUSTER JOINT EXAMINATION - (LANJET) 2021**

**443/2**

**AGRICULTURE**

**PAPER 2**

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**INSTRUCTIONS TO CANDIDATES**

1. *Write your name, index number and class 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 two questions in section* ***C.***
4. *All your answers must be written in the spaces provided in this question paper.*

**FOR EXAMINERS USE ONLY**

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| --- | --- | --- | --- |
| **SECTION** | **QUESTIONS** | **MAXIMUM SCORE** | **CANDIDATES SCORE** |
| A | 1-18 | 30 |  |
| B | 19-22 | 20 |  |
| C | 23-25 | 40 |  |
| **TOTAL** |  | **90** |  |

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

**SECTION A: (30 MARKS)**

1. State four external predisposing factors of livestock diseases. (2 mks)

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2. Differentiate between mothering ability and prolificacy in livestock. (2 mks)

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3. State two distinguishing external characteristics of California white rabbit. (2 mks)

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4. State four causes of infertility in dairy cattle. (2 mks)

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5. State the functions of the following hormones in livestock:- (1 mk)

(a) Oxytocin ……………………………………………………………………….

(b) Stilbestrol ……………………………………………………………………..

6. State two reasons for clipping the upper beak in poultry management. (1 mk)

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7. Name the set of tools used for the following farm operations.

(a) Controlling bloat …………………………………………………. (1 mk)

(b) Restraining an animal during agricultural show exhibition. (1 mk)

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8. Name three types of calf pens that can be constructed on a farm. (1 ½ mks)

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9. Give three reasons why honey harvesting is discouraged at night. (1 ½ mks)

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10. Outline four uses of the gear box in a tractor. (2 mks)

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11. Give the importance of each of the following rearing practices in calves.

(i) Single housing of calves - (1 mk)

………………………………………………………………………………………..

(ii) Removal of extra teats - (1 mk)

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12. List four essentials of clean milk production. (2 mks)

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13. Give two features that enable the gizzard to carry out its functions effectively.(1 mk)

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14. Give the appropriate term used to describe the following in chicken:-

(i) From hatchery to 8 weeks …………………………………………….

(ii) Rendered Sterile ……………………………………………………..

(iii) Reared for meat ……………………………………………………..

(iv) Female from 8 weeks to point of lay ……………………………….

15. State four reasons that make a farmer castrate his/her billy. (2 mks)

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16. List three protozoan diseases that are spread by vectors. (1 ½ mks)

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17. Mention three methods of selection in livestock breeding. (1 ½ mks)

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18. List two diseases that attack bees in a colony. (1 mk)

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**SECTION B: (20 MARKS)**

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

19. Below is a diagram of a grain store.



(a) Name the part labeled A. (1 mk)

……………………………………………………………………………………………..

(b) State one maintenance practice to be carried out before introducing a new produce.

(1 mk)

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(c) Why is it important to have some open spaces on the walls of the store. (1 mk)

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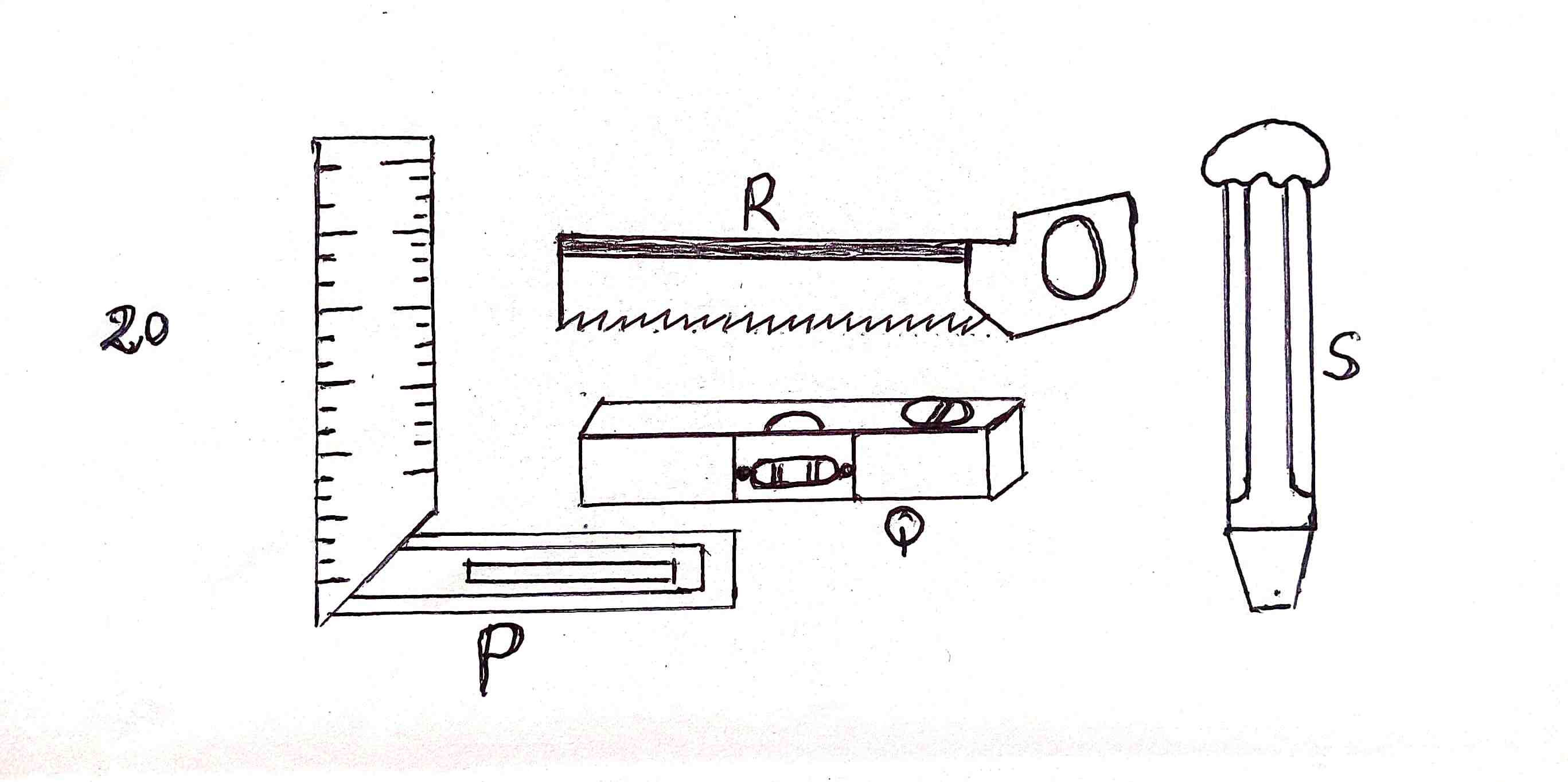
(d) Besides the store having open spaces, state two characteristics that make the store suitable

for storing grains. (2 mks)

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20. Study the diagrams below of some workshop tools and then answer the questions.



(a) Identify the tools P, Q, R and S.

P ……………………………………………. Q ……………………………….

R …………………………………………… S ………………………………..

(b) Give one use of tools P and R in the construction of a wooden feed trough.(2 mks)

P ..……………………………………………………………………………………….

R ………………………………………………………………………………………….

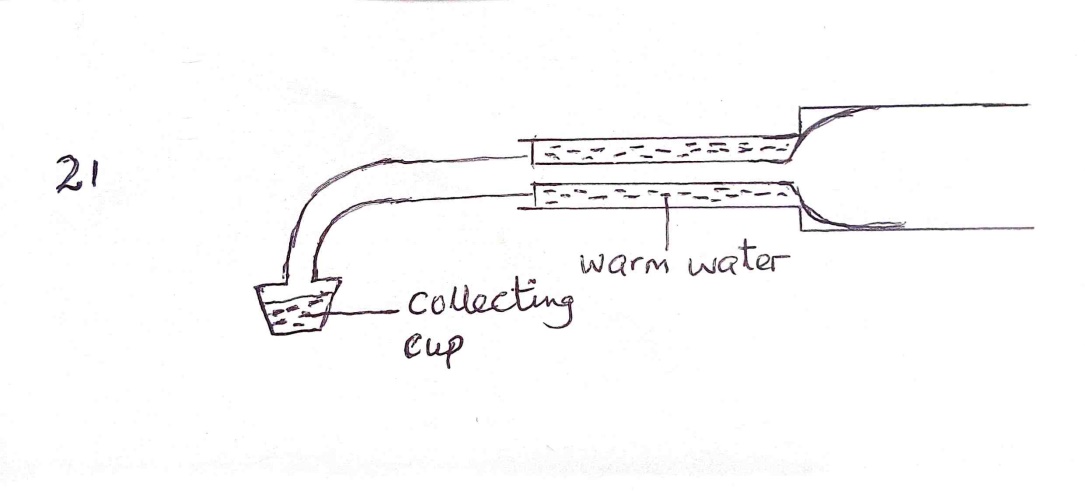
(c) How would the tool labeled Q be used in the construction of a calf pen? (1 mk)

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21. The illustration below shows livestock production equipment. Study it and answer the

questions that follow.



(i) Identify the equipment. (1 mk)

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(ii) What is the importance of warm water in the equipment. (1 mk)

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(iii) Describe the procedure followed when using the equipment in collection semen.

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(3 mks)

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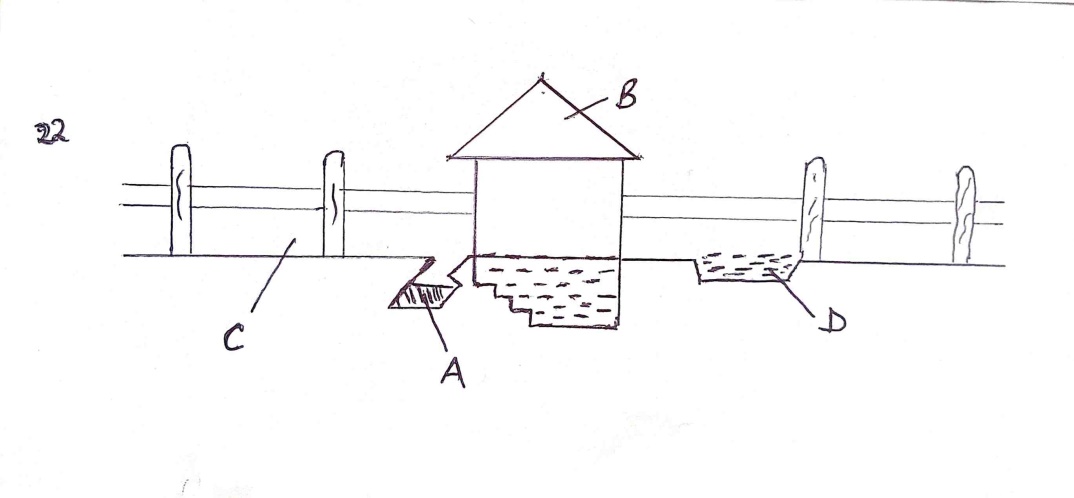
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22. The diagram below shows a cross-section of a plunge dip. Use it to answer the questions

that follow.



(i) Name the parts labeled A and B. (2 mks)

A ………………………………………………………

B ………………………………………………………

(ii) State the use of parts A and D. (2 mks)

A ………………………………………………………………………………..

B ………………………………………………………………………………..

(iii) State one advantage of holding cattle for some time in C. (1 mk)

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**SECTION C: (40 MARKS)**

**Answer any two questions in this section.**

23. (i) Describe the life cycle of a two host tick. (5 mks)

(ii) Outline five maintenance practices carried out on tractor battery. (5 mks)

(iii) Discuss five factors considered when siting a fish pond. (10 mks)

24. (a) Explain the operational differences between a disc plough and a mouldboard plough.

(10 mks)

(b) Explain the procedure used when constructing a barbed wire fence. (10 mks)

25. (a) Describe the management of day-old chicks to the point of laying. (14 mks)

(b) Describe the precautions that should be taken when handling bees. (6 mks)

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