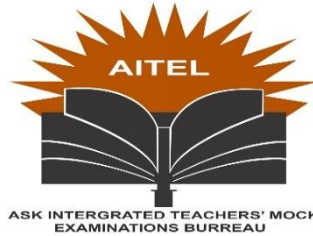


P515/1
PRINCIPLES AND PRACTICES OF
AGRICULTURE
PAPER 1
2023
2½HRS



AITEL JOINT MOCK EXAMINATION

Uganda Advanced Certificate of Education

PRINCIPLES AND PRACTICES OF
AGRICULTURE

PAPER 1

2 HOURS 30 MINUTES

INSTRUCTIONS TO CANDIDATES:

- Answer **all** questions in both sections.
- Write answers to section **A** in the boxes provided.
- Write answers to section **B** in the spaces provided.
- No additional sheet of paper should be attached to the question paper.

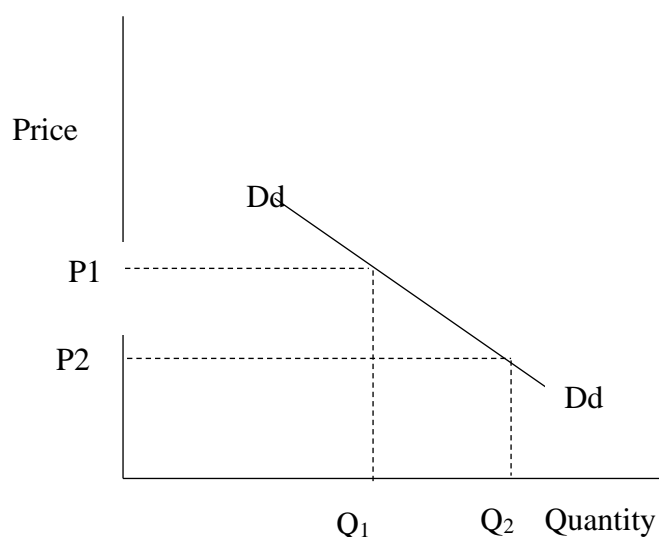
FOR EXAMINERS USE ONLY

SECTION		MARKS
A		
	31	
	32	
B	33	
	34	
	36	
	37	
TOTAL		

SECTION A (30MARKS)

Choose the correct alternative.

1. Which one of the following is a reason for quick germination of seeds when drainage is carried out?
A. soil acidity is reduced.
B. There is controlled fungal diseases.
C. Soil temperatures are modified.
D. There is increased availability of soil nutrients.
2. Cattle belongs to the family of Bovidae because.
A. They have a back bone. B. They have even toes.
C. They have hooves. D. They have hollow horns.
3. Which one of the following is the least important factor to consider when putting up farm structures for livestock.
A. Cost of the materials. B. Durability of the materials
C. Siting of the structure. D. Panorama of the structure.
4. The figure below shows the type of demand in market.



- The type of demand illustrated is
A. Elastic demand. B. Inelastic demand.
C. Unitary demand D. Perfectly elastic demand.
5. The feeding relationship among organisms in an ecosystem is referred to as
A. Food chain B. Food web C. Trophic level D. Ecological pyramid.
6. Phosphate fertilizers are applied by band placement because
A. They are mobile. B. They are soluble.
C. They are easily fixed. D. They easily get lost in gaseous form
7. Which one of the following is not an effect of oxytocin hormone in a cow?
A. Promotion of milkletdown
B. Facilitation of sperm transport up the uterus
C. Induced labour during parturition.
D. Indule milk synthesis.

8. Which one of the following statements does not apply to fixed costs in production?

- A. They are allocated to specific enterprise.
- B. They cannot be postponed
- C. Must be incurred even when there is no output
- D. Do not change with the level of production.

9. Systemic pesticides are effective against pests because

- A. They are toxic to pests
- B. They cover all parts of the plant
- C. They remain protected on the plant
- D. They repel pests from the plant.

10. Which one of the following is a disadvantage of trees in Agroforestry?

- A. Trees recycle nutrients from soil.
- B. Trees accumulate large quantities of nutrients in their structure.
- C. They lower soil temperature.
- D. They reduce on the effect of raindrops on the soil.

11. In which parts of the animal body are the alveoli found?

- A. Udder and pancreas.
- B. Lungs and udder.
- C. Pancreas and lungs.
- D. Udder and liver.

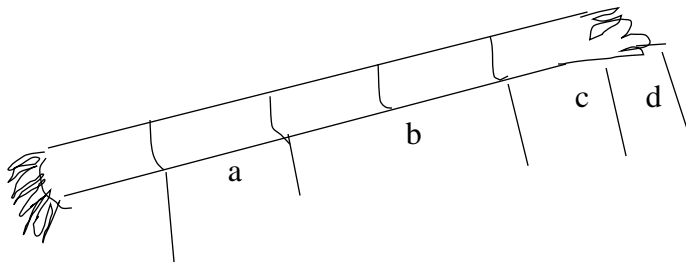
12. Which one of the following organisms are primary producers in a food chain

- A. Plants and algae.
- B. Mammals and molluscus.
- C. Birds and algae.
- D. Bacteria and worms.

13. Marginal product refers to

- A. Product obtained from unit of input.
- B. Extra product obtained from extra unit of input.
- C. Output obtained from all the inputs used.
- D. Total output divided by total input.

14. The figure below shows the parts of the plant



Which portion can be used for propagation?

- A. b
- B. c
- C. d
- D. a

15. It is the advisable to feed mash rather than pellets in poultry management because mash is

- A. More digestable than pellets
- B. More palatable than pellets.
- C. Cheaper than pellets
- D. Prolongs the time for feeding

16. Which of the following is an effect of moisture stress in crops

- A. Delayed maturity
- B. Hastened maturity
- C. Delayed flowering
- D. Lack of fruiting

17. Which one of the following maintenance practice is very important on an ox-plough that is frequently used?
- A. Oiling moving parts
 B. Sharpening the digging point
 C. Replace wornout parts
 D. Apply antirust paint on the body of the plough
18. Which one of the following is a reason for docking in sheep?
- A. Mating becomes easier.
 B. It discourages breeding of blow flies.
 C. There is production of better quality meat.
 D. It encourages faster growth.
19. Which one of the following minerals is vital in the process of respiration?
- A. Potassium B. Chlorine C. Sodium D. Phosphorus.
20. Which of the following is a facilitating marketing function
- A. Transportation B. Storage C. Processing D. Grading
21. Which of the following methods is most suitable for conserving water for crop production in low rainfall areas?
- A. Growing cover crops.
 B. Controlling weeds by cultivation
 C. Covering the soil with organic mulches
 D. Burning all vegetation cover.
22. Soil capillarity is due to the forces of
- A. Cohesion. B. Adhesion. C. Osmotic pressure. D. Surface tension.
23. A trading account is a type of farm record which shows
- A. Performance of each enterprise on the farm
 B. All transactions carried out on the farm throughout the year.
 C. Financial position of the farm on a particular date
 D. Income and expenditure of a farm at a particular time of the year.
24. Which of the following occurs when dissolved oxygen concentration in a fish pond falls?
- A. Fish swim to the bottom of the pond
 B. Fish swim to the water surface gasping
 C. Fish take in more water to get oxygen
 D. Swimming activity of fish increases.
25. The minority of bees in a bee hive are
- A. Workers B. Drones C. Queen D. Stingless bees
26. The following are reasons for hanging green plants in a poultry house **except**
- A. Keeping birds busy
 B. Controlling pests and diseases
 C. Controlling cannibalism.
 D. Providing vitamins to birds.
27. Scarification of seeds is done to;
- A. Protect them from soil borne diseases
 B. Inoculate them.
 C. Allow easy germination.
 D. Improve on their storage life.

28. Which of the following is not an adaptation of leaves for photosynthesis

- A. Broad lamina
- B. Numerous chloroplasts in palisade cells
- C. Airspaces between leaf cells.
- D. Thick lamina.

29. Which one of the following is not fencing material?

- A. Wood
- B. Wire strainer
- C. Barbed wire
- D. Fencing nails

30. Which of the following is the normal presentation of a calf at parturition

- A. Hind legs appear first
- B. Hind legs and fore legs appear together
- C. Fore legs appear first with the head
- D. One foreleg appears first

SECTION B (70MARKS)

31(a). Describe any five factors that affect the choice of irrigation system to use

5mks

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(b). Describe any five benefits of using drip irrigation in agriculture **5mks**

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32. Describe any six causes of wetness of litter in a poultry **6mks**

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(b). Outline any four disadvantages of deeplitter system of poultry management.

4mks

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33 (a). State five ways in which transpiration is important to plants. **5mks**

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(b). Outline five roles of water in plant growth. **5mks**

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34 (a). Describe the precautions when using a dip tank in controlling parasites. **6mks**

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(b). Outline the considerations when siting a diptank.

4mks

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35 (a). Describe the benefits of acquiring credit in agricultural production. **5mks**

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(b). Why do most farmers fail to pay back credit? **5mks**

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36 (a). Describe any six ways in which high temperature affects cattle production

6mks

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(b). How do animals respond to high temperature? **4mks**

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37(a). Describe the characteristics that have made insects successful as croppests

5mks

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(b). Outline the considerations when choosing the method of pest management.

5mks

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END