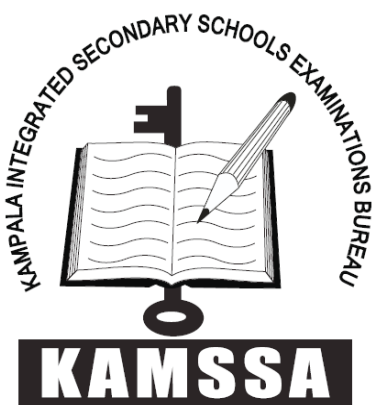


Name.....
Personal Number:...../.....Signature:.....
P515/1
Principles and
practices of agriculture
Paper 1
July/August 2022
3 hours



KAMSSA JOINT MOCK EXAMINATIONS
Uganda Advanced Certificate of Education
PRINCIPLES AND PRACTICES OF AGRICULTURE
Paper 1
3 hours.

Instructions to candidates:

- *This paper consists of sections A and B.*
- *Answer **ALL** questions in both sections.*
- *Answers for **SECTION A** must be written in the **boxes** provided and answers for **SECTION B** in **spaces** provided only.*

FOR EXAMINER'S ONLY		
QUESTION	MARKS	EXAMINER'S SINGNATURE
SECTION A		
31		
32		
33		
34		
35		
36		
37		
TOTAL		

1. An oxygen with a good temperature is likely to have a low concentration of?

A. Prolactin	C. Adrenaline	<input type="checkbox"/>
B. Relaxing	D. Progesterone	
2. Beef and hides production on a farm beef being the main product is an example of

A. Supplementary product	C. Joint product	<input type="checkbox"/>
B. Complementary product	D. Competitive product	
3. Which one of the following influences the effectiveness of a non-selective contact herbicides?

A. Degree of wetting leaves	D. Time of day the herbicide is applied	<input type="checkbox"/>
B. Type of weed being controlled		
C. Type of crop being grown		
4. Which of the following statements best describes the hydrogen potential of soil Z

A. Soil reaction	C. Cation exchange capacity	<input type="checkbox"/>
B. Soil	D. Hydrogen mineralization	
5. Which one of the following is found in both RNA and DNA?

A. Thymine	C. Double helix	<input type="checkbox"/>
B. Ribose	D. Sugar-phosphate chain	
6. Docking in sheep management is carried out in order to:

A. Facilitate mating	C. Control diseases	<input type="checkbox"/>
B. Improve hygiene	D. Make sucking of lambs easy	
7. In herbaceous plants, support is prodigal by?

A. Thickening of collenchyma	C. Sclerenchyma tissues	<input type="checkbox"/>
B. Lignification of tracheid	D. Turgidity of parenchyma	
8. Which of the following is the major objective of marking soil?

A. Allow water and root penetration easy	C. Make soil particles much smaller	<input type="checkbox"/>
B. Improve harness of soil	D. Maintain the PH of the soil	
9. Which one of the following statements is true of enzymes?

A. Substrate specific	C. Speed specific	<input type="checkbox"/>
B. Temperature specific	D. Heat specific	
10. Maize is mainly dried be before storage in order to control pests and pressure its viability. The above method of controlling pest is a?

A. Legal method	C. Physical method	<input type="checkbox"/>
B. Cultural method	D. Biological method	
11. In the preparation of silage, molasses, are added in order to

A. Act as a catalyst	C. Kill harmful organism	<input type="checkbox"/>
B. Aid bacterial action	D. Increase silage temperature	
12. When the price of meat was 400/=-, Peter bought 5kgs when the price reduced to 350/=-, he bought 8kgs. Which type of elasticity of demand was it?

A. Unitary elasticity of demand	C. Elastic demand	<input type="checkbox"/>
B. Inelastic demand	D. Perfectly inelastic demand	
13. Mr. Kizito had a nursery bed of coffee seedling, he transferred the good seedling into another nursery bed to reduce congestion. This activity is called?

A. Transplanting	C. Thinning	<input type="checkbox"/>
B. Pricking out	D. Hardening off	

14. Which of the following cattle diseases has the following symptoms, distention of rumen, difficulty in breathing, animal lies down ☐
- A. Mastitis C. Bloat
B. East coast fever D. Anthrax
15. High concentration of hydral ions in the soil mainly favours the abundance of ☐
- A. Fungi organisms C. Bacteria organisms
B. Earth worms D. Termites
16. Why are animals kept in a collecting yard prior to dipping? To ☐
- A. Count them C. To carryout milking
B. To see which one has ticks D. Water them and avoid dipping thirsty animals
17. Which of the following affects the composition of milk produced by a cow? ☐
- A. Type of feed C. Age of cow
B. Milking material D. Colour of the cow
18. When a goat is pregnant, it shows the following signs except ☐
- A. Enlargement of the belly C. Closing of cervix
B. Udder tissue develops D. Opening of cervix
19. A gene which does not express itself unless in homozygous state is ☐
- A. Dominant C. Codominant
B. Sex-linked D. Recessive
20. In ruminants, where does digestion of proteins begins from? ☐
- A. Abomasum C. Rumen
B. Omasum D. Mouth
21. In ground nuts, ground nut disease is mainly transmitted by: ☐
- A. White fly C. Aphids
B. Ground nut pests D. Leaf hopper
22. Which one of the following does not influence bulk density of soil? ☐
- A. Soil depth C. Organic matter
B. Soil temperature D. Soil texture
23. The animal management practice that helps to improve milk hygiene is? ☐
- A. Docking C. Flushing
B. Grooming D. Proper feeding
24. The major objective of plan for modernization of agriculture (PMA) is? ☐
- A. Empower all farmers
B. Increase household income and quality of life
C. Promote farmer groups
D. Create avenues for financing and delivering of advisory services
25. Which of the following best describe the reasons why sand soil allows more water to pass through? ☐
- A. Large particles with large pore space
B. Large particles with small pore spaces
C. Small particles with smaller pore spaces
D. Small particles with large pore spaces
26. The following are inorganic fertilizers, which of them is applied at the time of planting? ☐
- A. Urea C. D.A.P
B. N.P.K D. C.A.N

27. In the nitrogen cycle, the bacteria which converts ammonium compound into Nitrites (NO₂) is?

- A. Azotobacterial bacteria
- B. Nitrobacter bacteria

- C. Rhizobium bacteria
- D. Nitrosomonas bacteria

28. Which of the following eco system shows the highest gross productivity per unit area

- A. An estuary
- B. Forest

- C. Grassland
- D. An ocean

29. The following processes are used in heat treatment method of hardening steel except?

- A. Tempering
- B. Annealing

- C. Normalization
- D. Cyaniding

30. Where does the formation of chalaza take place in a hen?

- A. Infundibulum
- B. Magnum

- C. Cloaca
- D. Isthmus

31. Mr. Obonyo has 2 hectares of land where he planted coffee, when growing it, the following costs were involved seedlings 40,000/=-, planting 10.000/=-, weeding 5.000/=-, land 20.000/=-, pesticides 30.0000/=-He is obtained 100kg and each is to be sold at 3000/=-.

a) Calculate the gross margin

(03marks)

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b) What will be the gross profit

(04marks)

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c) Why should farmers keep records on the farm?

(04marks)

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32. (a) Explain the factors that favour the abundance of living organisms in the soil

(06marks)

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(b) Outline the desirable effects of soil living organisms

(04marks)

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33. (a) A poultry farmer wants to mix 18% ratio using maize bran 8%, rice bran 4%, fish meal 40% and cotton seed cake 38%. He would like to mix maize bran and rice bran in the ratio of 1:2 while cotton seed cake and fish meal in the ratio of 1:1. Calculate how much of cotton seed cake and maize bran if he is to make 100kgs of the ration.

(06marks)

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(b) Outline 4 additives that can be added in animal feeds.

(04marks)

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34. (a) explain the management practices that ensure optimum power output from draught animals.

(05marks)

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(b) Why do you think there is poor coverage of ox-plough cultivation in Uganda

(05marks)

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35. (a) Give the reasons why farmers tend not to pay back the bank loans. **(06marks)**

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(b) Mention the reasons why farmers should borrow money **(04marks)**

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36. (a) Describe how you can preserve wood using sap displacement method. **(05marks)**

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(b) Outline the advantages of using wood as a constructions material. **(05marks)**

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37. (a) Describe how you can castrate a pig using open castration material **(08marks)**

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(b) Outline the reasons for low coverage of artificial insemination in Eastern Uganda **(05marks)**

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END