

RESOURCEFUL MOCK 2017

Uganda Advanced Certificate of Education AGRICULTURE P515/1 TIME: 2 HOURS

Do all questions in this paper

SECTION A [30 marks]

- 1. High soil pH can be corrected by application of;
 - A. Lime C. compound fertilizer
 - B. SP fertilizer D. Sulphate of ammonia fertilizer
- 2. Which of the following is not a characteristic of nematodes?
 - A. Having piercing and sucking mouth parts
 - B. Are round with un-segmented bodies
 - C. Lack legs
 - D. Are hermaphrodites
- 3. Scari ication of seeds is tone to;
 - A. Protect them from soil borne diseases
 - B. Innoculate them
 - C. Allow easy germination
 - D. Improve their storage life
- 4. Which one of the following factors does not affect the price of a commodity?
 - A. Government policy
- C. Cost of implements
- B. Sex of consumers
- D. Marketing costs
- 5. Which one of the following diseases is controlled by slaughtering of affected animal?
 - A. Foot rot C. African swine fever
 - B. Foot and mouth disease
- D. Black quarter
- 6. Tomato plants become yellow or reddish on ripening because
 - A. There is breakdown of chlorophyll
 - B. There is reduction of nutrient low in the fruit
 - C. Green pigments are oxidized to yellow
 - D. There is more iron uptake causing reddening
- 7. Genes are said to be linked when they;
 - A. Are situated on the same chromosomes
 - B. Express themselves in homozygous form
 - C. Don't allow independent assortment



- D. Are located on homozygous chromosomes
- 8. The ability of a material to extend in all directions when subjected to compressive forces is its
 - A. Hardness
- B. ductility
- C. malleability
- D. toughness
- 9. The major reason for adding sand to clay soil for crop production is to
 - A. Decrease acidity
- C. improve water retention
- B. Improve drainage
- D. decrease alkalinity
- 10. Which one of the following is a control measure for trypanosomiasis in cattle
 - A. Dipping
- C. spraying bushes with pesticides
- B. Vaccination
- D. isolating sick animals
- 11. Which one of the following is the correct order for treating hides after slaughter
 - A. Laying washing leshing draining trimming preservation
 - B. Laying leshing draining washing trimming preservation
 - C. Laying trimming leshing washing draining preservation
 - D. Laying draining leshing washing trimming preservation
- 12. Supply of excess nitrogen macronutrient to a plant may cause
 - A. Browning of leaves and premature drop off
 - B. Chlorosis
 - C. Delayed maturity
 - D. Production of pigments other than chlorophyll
- 13. A test cross refers to crossing
 - A. An individual with the parent to determine the genotype
 - B. An individual with a homozygous recessive one to establish the genotype
 - C. Two individual to determine the dominant
 - D. Two individual to determine compatibility
- 14. Maize streak is characterized by
 - A. Dark brown patches on underside of leaves
 - B. Papery lesions on leaves
 - C. Sooty appearance on the cob
 - D. Narrow yellow stripes parallel to the leaf vein
- 15. The method used in castrating animals depends on the following except
 - A. Tools available
- C. type of animal

- B. Skills available
- D. age of the animal
- 16. The process of creating enough space for seedlings to grow before transplanting may be achieved by
 - A. Hardening off
- B. stsking
- C. pricking out
- D. pruning
- 17. Which one of the following is not a characteristic of a good agro-forestry tree specie



A. Having a light canopy to allow sunlight penetration B. Being deep rooted C. Being easy to establish D. Being able to compete with crops 18. Which one of the following conditions may make a cow fail to show signs of oestrus A. Secretion of adrenalin C. low levels of progesterone hormone B. Persistent corpus luteum D. absence of a bull 19. Keeping animals in a collecting yard before dipping is done to A. Ensure orderly entrance of animals B. Ensure that all animals are present before dipping C. Rest the animals before dippin D. Assess the level of tick infestation 20. Price mechanism in agriculture assists farmers in the following except; A. Deciding on production alternatives B. Improving productivity C. Deciding on product combinations D. Guiding on choice of markets 21. Which of the following minerals and vitamins combats rickets in chicken? A. Magnesium, Manganese, Vitamin B B. Vitamin D, Phosphorus, sulphur C. Vitamin B, Calcium, phosphorus D. Calcium, Vitamin D, Phosphorus 22. Intramuscular injection in cattle is best administered in the; C. Rumen A. Hump D. Shoulder B. Neck 23. One cotton pest controlled by growing hairy cotton variety is; A. Cotton stainer C. Jassids B. American boll worm D. Spiny boll worm

- 24. In vegetable production, pricking out refers to removing;
 - A. Excess plants and transferring them to another bed
 - B. Diseased plants from nursery and burying them
 - C. Soil to facilitate planting seeds in a nursery
 - D. Excess plants from a nursery and throwing them away
- 25. Absorption banks conserve water and soil by;
 - A. Holding soil particles together
 - B. Retaining water and soil
 - C. Increasing surface roughness to reduce speed of run off
 - D. Preventing run off

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| 26. | Wl | nich of the following may be a re | sult of | inbreeding? | | | | | |
|-----|---|---|---|------------------|---------------------------------------|---|--|--|--|
| | A. | Improved fertility | C. Acc | umulation of le | ethal genes | | | | |
| | B. | Increased mutation rates | D. Pol | yploidy | | | | | |
| 27. | Silage is not recommended for feeding calves because; | | | | | | | | |
| | A. It is likely to be contaminated with harmful micro organisms | | | | | | | | |
| | B. | B. Calves can not digest silage effectively | | | | | | | |
| | C. | It is not palatable to calves | | | | | | | |
| | D. | It contains chemicals which are | harm | ful to calves | | | | | |
| 28. | The value of assets minus debts on a farm is referred to as; | | | | | | | | |
| | A. | Profits B. capital | C. Gro | ss margins | D. Net | worth | | | |
| 29. | Wl | nich of the following is a third cla | | _ | | | | | |
| | A. | Tongs B. wheel barre | ow | C. Hoe | D. Borehole | | | | |
| 30. | It i | s not necessary to apply nitrog | en fert | ilizers to a mix | ked grass-legu | me pasture | | | |
| | be | cause; | | | | | | | |
| | A. | Nitrogen suppresses uptake of | phospl | norus | | | | | |
| | B. | Nitrogen may reach toxic levels | in the | legume | | | | | |
| | C. | Grass may overgrow to suppres | ss legu | mes | | | | | |
| | D. | Legumes fix enough nitrogen fo | r the p | astures | | | | | |
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| | | CTION B [70 marks] | | | | | | | |
| 31. | - | Define the following as applied t | o pest | icide use; | | | | | |
| | i) | Pre –harvest period | | | | [1mk] | | | |
| | | | | | | | | | |
| | ii) | Lethal dose 50 (LD 50) | • | | | [1mk] | | | |
| | | Dethar dose so (DS so) | | | | [1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | |
| | •••• | | | | | | | | |
| | h) | Explain four characteristics that | make | pests successf | ul in nature. | [4mks] | | | |
| | | | 1110110 | pests successi | | [] | | | |
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| | c) | State four qualities of a good bio | logical | agent for nest | control. | [4mks] | | | |
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| 32. a) State four characteristics of a good site for dip construction. | [4mks] |
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| | |
| b) Explain six precautions taken during the dipping of farm animal | ls. [6mks] |
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| 33. a) State two other forces that aid movement of water up the stem than transpiration pull. | of a plant othe [2mks] |
| | |
| b) Give three ways in which transpiration is important to plants. | [3mks] |
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| c) Give five roles of water in plants. | [5mks] |

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| 34. | a) Outline five conditions which would encourage a farmer to mix a on the farm. | [5mks] |
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| | b) A farmer would like to mix a ration containing 18%Cp using maize is 80% CP and cotton seed cake which has 40% CP. | |
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| | Using person square, show the proportion of maize and cottor which would be mixed to make the ration. | i seed cake [3mks] |
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| | ii) Explain two ways by which the nutritive value of the ration in (b |) ii) may be |
| | improved. | [2mks] |
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| 35. | a) Suggest five factors to be considered when planning a settlement so | |
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| b) Explain five ways in which settlement and resettlement increases | agricultural |
| production. | [5mks] |
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| 36. a) Define these terms | FO 1 1 |
| i) Gender equality | [2mks] |
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| ii) Gender equity | [2mks] |
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| b) Suggest three ways how gender equality contributes to | agricultural |
| production. | [6mks] |
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[3mks]

37. a) Give three weed factors that affect their response to herbicides.

| b) Give seven cultural methods that could be used to control weeds. | [7mks] |
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