

**S.5 HOLIDAY REVISION WORK 2020
P515/1 – PRINCIPLES & PRACTICES
OF AGRICULTURE**

Paper One

TIME: 2 Hours

INSTRUCTIONS:

Answer all questions.

Untidy work will lead to loss of marks.

SECTION A

1. When a change in price of a commodity produce only a slight change in demand, the demand for a commodity is
A. elastic B. stable C. rigid D. inelastic
2. An epithelium tissue lining the walls of the alveoli and capillaries is
A. columnar B. cuboidal C. stratified D. squaremous
3. Which of the following factors may make crop rotation inefficient in controlling crop diseases?
A. Loss of soil fertility
B. Absence of resistant crop variety
C. Late planting of crops
D. Presence of pathogen spores from previous crop
4. Sub-soiling is carried out in order to;
A. mix the soil C. discourage soil erosion
B. encourage soil drainage D. encourage soil erosion
5. Which one of the following factors does not cause a change in gene frequencies in a population?
A. Mutation B. Migration C. Genetic drift D. Epitasis
6. Organic matter content contains the following except;
A. Carbohydrates B. Fats C. Lignin D. Gravel

7. A soil profile with A and C horizons only
- A. Lacks organic matter
 - B. Lacks the present maternal
 - C. is a young soil
 - D. has been eroded
8. In mitosis DNA replication and chromosome duplication occur during
- A. anaphase
 - B. Metaphase
 - C. interphone
 - D. prophase
9. Which of the following quickens rooting in cutting?
- A. Ethylene dichromide
 - B. Indole Acetic Acid
 - C. Phosphate fertilizers
 - D. Amino acid
10. The yellowing of leaves between their veins is a symptom of
- A. Water logging
 - B. Nitrogen deficiency
 - C. magnesium deficiency
 - D. high soil pH
11. Which of the following rainfall characteristic is most critical for the growing of a perennial crop?
- A. Total amount per year
 - B. Distribution
 - C. Reliability
 - D. Intensity
12. The term soil reaction refers to;
- A. mineralization of elements in organic matter
 - B. Antagonism between soil nutrients.
 - C. fixation of nitrogen in the soil
 - D. the hydrogen potential of the soil
13. Which of the following statements is true in respect to region III of the production function?
- A. Total product increasing at a decreasing rate
 - B. Marginal product is negative
 - C. Average product is equal to marginal product
 - D. Profit is maximum
14. The plant nutrition, potassium may antagonize uptake of;
- A. molybdenum
 - B. Magnesium
 - C. Sulphur
 - D. copper
15. Which of the following conditions may make a cow fail to show signs of oestrus?
- A. Persistent corpus luteum
 - B. Secretion of adrenaline
 - C. low levels of progesterone
 - D. absence of a bull
16. Formation of hard pans in soil may be due to;
- A. Operating heavy farm machines

- B. Constant movement of animals on the land
- C. Constantly ploughing at the same depth

17. Which of the following bonds is found in RNA only?

- A. Guanine
- B. Uracil
- C. Thymine
- D. Adenine

18. Which of the following statements is true for complementary products?

- A. They have equal demand
- B. They use the same product
- C. An increase in production of the other
- D. Increase in production of the other is accompanied by increase in production of the others.

19. Ligases are enzymes responsible for;

- A. Splitting of C – C bonds
- B. Corrating one isomer into another
- C. Bond formation
- D. Transforming certain components in Molecules

20. Which of the following is fixed cost?

- A. A cost of raw materials
- B. Cost of depreciation
- C. Cost of fuel
- D. Cost of labour

21. Which of the following is a characteristic of shade plants?

- A. Thick leaves in vertical section
- B. Chloroplasts mostly on upper leafs in fall
- C. Erect leaf architecture
- D. High compensation points

22. The fruits of ground nuts are both on pedicels arising from

- A. The lateral roots
- B. The tap roots
- C. the flower
- D. the internodes

23. Which one of the following should a farmer carry out to maximize profits?

- A. Proper budgeting
- B. Application of fertilizers
- C. Least cost combination of the factors of production
- D. Accurate record keeping

24. Herbaceous plants get support from

- A. Scarechyma
- B. Turgidity
- C. Collenchyma
- D. Lignified tracheids

25. Pastoralism means

- A. Raising livestock
- B. Living un-settled life
- C. Shifting cultivation
- D. Moving from place with animals

26. Calves of one month can be dehorned easily by using;
 A. Saw B. Clipper C. Caustic pencil D. A wire saw
27. Which of the following factors does not determine the method of dehorning cattle?
 A. Size of the horn C. Breed of the animal
 B. Brittleness of the horn D. Age of the animal
28. Seed dormancy can be carried out by all the following except;
 A. Impermeable seed coat C. Benthylpocotyl
 B. Rudimentary embryo D. Growth inhibitor
29. All the following factors determine spacing of crop except;
 A. Soil fertility C. Soil depth
 B. Size of the seed D. purpose of the crop
30. In animal breeding, the selection of animals based on performance of their ancestors is referred to as;
 A. Pedigree C. Individual selection
 B. Progeny testing D. Mass selection

SECTION B (50 MARKS)

Answer all questions by filling in answers

31. (a) Why is transpiration a necessary evil to crops/plants production? [4mks]

- (b) How is transpiration important to crops production? [4mks]

- (c) Outline four factors that influence the rate of transpiration in crop plants. [2mks]

32. (a) Define the term soil structure.

[2mks]

(b) Explain the importance of studying soil structure.

[4mks]

(c) Outline the factors that may lead to loss of soil structure.

[4mks]

33. (a) What is meant by shifting cultivation?

[4mks]

(b) Give reasons why shifting cultivation is no longer a popular farming system. [4mks]

(c) Subsistence farming is a major form of farming in Uganda. Why?

[4mks]

34. (a) Give the characteristics of a good dairy cattle in Uganda. [5mks]

(b) What problems do farmers face when rearing exotic breeds of cattle? [5mks]

35. (a) State 5 adaptations of liverflukes to its parasitic life. [5mks]

(b) suggest five control measures of liverflukes in the farm.

(C) Giving examples define the following terms.

i. Ecto parasitics

ii. Endo parasitics

iii. Breeding efficiency.

END