

END OF TERM ONE EXAMINATIONS

S3 BIOLOGY

TIME: 2 HOURS

Circle the correct alternative in section A

Answer all questions in section B and C

Section A

- Which parts of the vascular system of plants transports water in the plant
 - Xylem
 - Phloem
 - Root hairs
 - Endo dermis
- One of the following factors does not affect enzyme activity
 - Temperature
 - PH of the medium
 - Humidity
 - Presence of inhibitors
- In which a part of the root apex do cells take up water and enlarge
 - Region of cell division
 - Region of cell division
 - Root cup
 - Region of differentiation
- If the magnification of both the eye piece and objective lenses is x 10, the overall magnification of the image therefore is
 - X 10
 - X 20
 - X 1000
 - X 100
- The roots of carrots and sweet potatoes are modified for
 - Breathing
 - Storage
 - Climbing
 - Extra support
- Fungi have a tendency of feeding on dead and decaying plant and animal material. This type of nutrition is called
 - Saprophytism
 - Parasctism
 - Halozoic
 - Autotrophic
- The following fruits have axial placentation except
 - Of the same flower
 - Different flower of a different plant but of the same species
 - Different flower but of the same plant
 - Different flower plant but of different species
- One of the following as a monosaccharide
 - Maltose
 - Galactose
 - Sacrose
 - Lactose
- Organic components of soil include living organisms and
 - Salts
 - Acids
 - Humus
 - Water

10. Which of the following are and products of digestion of sugar
- a. Sucrose and maltose
 - b. Glucose and fructose
 - c. Maltose and glucose
 - d. Fructose and galactose
11. A diets that lacks iodine results into
- a. Ridiet
 - b. Anaemia
 - c. Goiter
 - d. marascus
12. People living at high altitude have more red blood cells than people living at low altitude in order to
- a. Breath more quickly
 - b. Keep the body warm
 - c. Carry more oxygen
 - d. Pump more blood
13. One of the following cell structures is possessed by both animal and plant cells
- a. Chloroplast
 - b. Cell wall
 - c. Flagilum
 - d. Cell membrane
14. Beans are usually included in the crop rotation cycle because they
- a. Restore nitrogen in soil
 - b. Increase the human content
 - c. Improves water retention
 - d. Act as cover crops
15. The burete test, the expected colour change for a positive test
- a. Blue
 - b. Blue – blade
 - c. Pink
 - d. purple
16. One of the following foods lack Vitamin C
- a. Milk
 - b. Tomato
 - c. Orange
 - d. lemon
17. One of the following elements is present in proteins but absent in Lipids
- a. Carbon
 - b. Hydrogen
 - c. Nitrogen
 - d. oxygen

18. Which of the following characteristics is common to both insects and arachnids

- a. Jointed legs and segmented bodies
- b. 3 body parts and jointed limbs
- c. 3 body parts and a pair of wings
- d. A pair of antennae and segmented body

19. One of the following is not a benefit of fruit and seed disposal

- a. Reducing competition for nutrients
- b. Colonization of new areas
- c. Increases chances of survival
- d. Reduces transmission of diseases

SECTION B

20. (a) What is meant by saprophytism (2mks)

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(b) Outline the differences between saprophytic feeding and feeding in humans (3mks)

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(c) Explain four ways in which saprophytes are economically important in nature (4mks)

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(d) List any one example of a saprophyte (1mks)

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SECTION C

21. Describe an experiment to show that plants lose water through leaves mainly (10mks)

22. (a) Mention five differences between Arteries and veins (5mks)

(b) Describe five factors that affect the rate of heart beat in human beings (5mks)

END