



UNIVERSITY OF UYO

2012/2013 POST UTME SCREENING EXERCISE

BIOLOGY 006

1. A group of closely related organism capable of interbreeding to produce fertile offspring are known as members of a. A. Kingdom B. Class C. Family D. Species
2. Viruses are economically important because they. A. do not have cell structures B. can only reproduce inside living cells C. suspends all cell organelles D. exists as crystals outside living cells
3. The cytoplasm of the cell is considered a very important component because it A. regulates the amount of energy in the cell B. suspends all cell organelles C. is the outermost part of the cell D. is solely responsible for cell division
4. Red blood cells were found to have burst open after being placed in distilled water for an hour. This phenomena is known as A. plasmolysis B. diffusion C. haemolysis D. Wilting
5. Two organelles directly involved in mitotic cell division are A. nucleus and mitochondrion B. ribosome and nucleus C. centriole and golgi bodies D. nucleus and centriole
6. The longest bone in the body is A. humerus B. femur C. scapula D. tibia
7. The reason why the flow of blood in the capillaries is very slow A. the walls of the capillaries is too thin B. to avoid high blood pressure C. to ensure that the individual does not get dizzy D. To ensure adequate for exchange of materials
8. Which of the following organisms has kidney as the excretory organ? A. fishes, amphibians, birds, man B. fishes, amphibians, annelids, insects C. fishes, reptiles, birds, tape worms D. fishes, protozoan, amphibians, man
9. The mesophyll layer of a leaf consists of A. wax and cutin B. cells with liquefied walls C. irregularly shaped collenchymas cells D. photosynthetic parenchyma cells
10. Pepsin is secreted as an inactive precursor called pepsinogen because A. pepsin as enzyme is quickly destroyed by the alkaline food from the mouth B. all digestive

enzymes pass through a precursor stage C. pepsin is a proteolytic enzyme and might attack the stomach tissues D. pepsin is not required in large quantities

Study the diagram of the food chain shown below. Use it to answer question 11 and 12

$P \rightarrow Q \rightarrow R \rightarrow S \rightarrow T$

11. The organism designated P in the food chain above is normally sustained by energy from A. sunlight B. carbohydrates C. green plants D. mineral salts
12. Which of the following statements best describes the organism designated R? A. feeds on S B. is a primary consumer C. is a producer as well as consumer D. is secondary consumer
13. Most tropical plant shed their leaves during dry weather condition in order to A. reduce their growth rate B. conserve water C. reduce competition D. root cells
14. Terrestrial plant exchange gasses through the following except A. chloroplast B. stomata C. lenticels D. root cell
15. Which of the following is not a function of the liver in mammals A. storage of some vitamin B. conversion of glycogen into glucose C. deamination of excess nitrogenous substances D. filtration of urea from excess nitrogenous substances D. filtration of urea from the blood
16. Iodine is needed by a patient suffering from a malfunction of the A. salivary gland B. thyroid gland C. adrenal gland D. balance posture
17. The medulla oblongata controls all the following except A. heart beat B. breathing rate C. blood pressure D. balance posture
18. Hypermetropia is corrected by the use of A. concave lenses B. convex lenses C. cylindrical lenses D. contact lenses
19. During the germination of seeds water is taken by the process of A. diffusion B. hydrolysis C. imbibitions D. translocation
20. The importance of a balanced diet is to A. maintain constant size of animal B. provide good taste in the food C. increase the effectiveness D. provide good health for an individual

21. Which of the following statement is not true A. ptyalin acts on protein to give amino acid B. lactase act on maltose to give amino acid C. pepsin acts on protein to give peptide
22. Soil factors in an ecosystem are referred to as A. topographic B. climate C. biotic D. edaphic
23. Carbon is added to the atmosphere by the following processes except A. respiration B. burning C. photosynthesis D. volcanic eruption
24. Which of the following is an effect of carbon monoxide to man A. irritating the skin B. reducing oxygen carrying capacity of blood causing germ mutation C. destroy white blood cell
25. Which of the following statement about sex determination is correct at fertility A. the probability of male to female offspring is 1/2 B. the Y chromosome of the father decreases the probability of having of male child to 1/4 C. the XX chromosome of the mother decreases the probability of having a female child to D. the vigour of either parent determines the sex of the offspring.

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