



Larkin University

College of Pharmacy

Advance Sciences Self-Assessment

Instructions: Please write your name on EACH page. Please circle the correct answer to each of the questions below.

- Which of the following is an acid?
 - NaOH
 - HNO₃
 - NaCl
 - MgSO₄
- Table sugar (sucrose) obtained from sugar cane is a member of the following chemical group:
 - proteins
 - lipids
 - carbohydrates
 - fatty acids
- The function group of amine is _____.
 - CHO
 - COOH
 - OH
 - NH₂
- What is the name of the large, long bone found in the upper leg?
 - femur
 - tibia
 - humerus
 - metatarsal
- DNA and RNA are _____.
 - proteins
 - carbohydrate
 - lipids
 - nucleic acids
- The end products of the digestion of carbohydrates are _____.
 - monosaccharides
 - disaccharides
 - glycerol
 - amino acids
- Functional groups on organic molecules determine _____.
 - reactivity
 - in vivo* stability
 - in vitro* stability
 - solubility



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8. Proteins are polymers of _____.
- steroids
 - amino acids
 - nucleic acids
 - fatty acids
9. What is the main function of mitochondria?
- to generate most of the cell's supply of chemical energy
 - to ingest and destroy foreign matter
 - to process and package the proteins and lipids that are made by the cell
 - to carry the genetic information for the creation of new cells
10. The fundamental genetic material of cells is _____.
- RNA
 - DNA
 - nucleus
 - cytoplasm
11. Which of the following lists best illustrates the idea of increasing levels of complexity?
- organelles, cells, tissues, organs, systems
 - cells, tissues, organelles, organs, systems
 - tissues, cells, organs, organelles, systems
 - organelles, cells, tissues, organs, systems
12. The iron-containing oxygen-transport metallo-protein in the red blood cells of all vertebrates is _____.
- myoglobin
 - hemoglobin
 - hemocyanin
 - rhodopsin
13. Which of the following best defines physiology?
- the study of tissues
 - the study of how the body parts work and carry out their life-sustaining activities
 - the study of the structure of body parts and their relationships to one another
 - the study of all chemical reactions that occur within body cells
14. The heart and lungs are housed in what cavity of the body?
- pelvic
 - thoracic
 - peritoneum
 - abdominal



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15. Which system is responsible for the secretion of hormones?
- endocrine
 - integumentary
 - circulatory
 - digestive
16. The stomach, intestines, pancreas and kidneys are housed in what cavity of the body?
- pelvic
 - thoracic
 - peritoneal
 - abdominal
17. Histology is the study of _____.
- cells and membranes
 - tissues
 - skin
 - organs and organ systems
18. Which of the following statements is true concerning acids and bases
- acids and bases don't react with each other
 - acids mixed with bases neutralize each other
 - acids mixed with bases make stronger bases
 - acids mixed with bases make stronger acids
19. Neutral solutions have a pH of
- 6
 - 8
 - 7
 - 14
20. *Cis* and *trans* double bond nomenclature exists in _____.
- alkanes
 - alkynes
 - alkenes
 - alcohols