Introduction to Biochemistry in Health Sciences

Biochemistry · Answer Key · 15 Questions

1. What is the primary definition of biochemistry?

A) The study of physics in living organisms
B) The science concerned with the chemical basis of life
C) The study of mechanical movements in cells
D) The analysis of historical evolution

2. What is considered the structural unit of living systems?

A) The atom
B) The molecule
C) The cell
D) The organ

3. Which elements compose more than 99% of the human body?

A) Gold, Silver, Iron, Zinc
B) Oxygen, carbon, hydrogen, nitrogen, calcium, phosphorous
C) Sodium, Potassium, Magnesium, Sulfur
D) Helium, Neon, Argon, Xenon

4. How much of the human body is typically composed of water?

A) 40%
B) 50%
C) 60%
D) 70%

5. What are the small precursors known as the 'alphabets of biochemistry' used to build molecular structures?

A) 50
B) 30
C) 10
D) 100

6. Which of the following is a major complex biomolecule?

A) Water
B) Minerals
C) Proteins
D) Oxygen

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7. What are the two major components of nucleic acids?

A) Lipids and proteins
B) Sugar and phosphate molecules
C) Glucose and amino acids
D) Glycerol and choline

8. What are the monomers that form polypeptide chains?

A) Nucleotides
B) Monosaccharides
C) Amino acids
D) Fatty acids

9. Carbohydrates are categorized as simple or complex based on what?

A) Color
B) Number of sugar molecules
C) Weight
D) Temperature

10. What are carbohydrates made of three or more monosaccharides called?

A) Monosaccharides
B) Disaccharides
C) Polysaccharides
D) Oligosaccharides

11. Which clinical test helps identify gout?

A) Blood glucose level
B) Uric acid levels
C) Ketone bodies
D) Liver enzymes

12. What does a high blood glucose level (above 5.6mmol/L) typically indicate?

A) Gout
B) Diabetes
C) Liver damage
D) Cardiovascular disease

13. The appearance of ketone bodies in urine is often associated with what stage of diabetes?

A) The initial stage
B) The middle stage
C) The last stage
D) No stage

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14. Which biochemical test helps assess the risk of cardiovascular diseases?

A) Serum cholesterol
B) Urine pH
C) Blood oxygen
D) Protein levels

15. What is the main role of biochemistry in physiology?

A) To study mechanical motion
B) To understand biochemical changes and physiological alterations
C) To analyze social behavior
D) To focus on surgical techniques

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