

Answer Key

Unit 2 Metabolic Processes

Answers to Unit 2 Preparation Questions (Assessing Student Readiness)

(Student textbook pages 108–111)

1. d
2. c
3. Intermolecular forces (London dispersion specifically)
4. a. reactants
b. products
5. Formation of gas, colour change, precipitate formation, release or absorption of energy
6. b
7. substrate
8. The structure is made of intramolecular interactions causing folding, twisting due to the *R* groups. Its function is to loosely bond to the substrate decreasing the energy in bonds and making them easier to break.
9. Changing the temperature or pH.
10. a. amino acids
b. simple sugars (monosaccharides)
c. nucleotides
11. neutral
12. Enzymes decrease the activation energy needed for a reaction to progress. The energy of the reactants must be increased before the bonds break and the energy of the products decreases. Energy must be released during this reaction.
13. The cell membrane is made of phospholipids and proteins. The phospholipids have a hydrophilic (polar) head and hydrophobic (nonpolar) tail. The head is attracted to water and the tail is repelled. When placed into solution, the tails spin away from water and a bilayer forms. It is a mosaic because it is made of discrete components (that are not bonded). It is fluid because the components are flexible and can move from place to place in the membrane. See Figure 2.12 on page 69 of the student textbook.
14. The cell wall provides structure to the cell. Plants need the cell wall to keep the plant rigid. The cell wall allows the plant cell to maintain turgor pressure. Animal cells do not need this structure due to the fact that animals make specialized cells to give them structure (e.g., bones, calcium deposits) if needed.
15. 1—microtubule
2—actin filament
3—intermediate filaments
4—lysosome
5—centrioles
6—centrosome
7—cytoplasm (or cytosol)
8—vesicle
9—Golgi apparatus
10—nuclear envelope
11—chromatin
12—nucleolus
13—nuclear pore
14—rough endoplasmic reticulum
15—smooth endoplasmic reticulum
16—ribosomes
17—peroxisome
18—mitochondrion
19—chain of ribosomes
16. The mitochondria break down high energy organic molecules to convert stored energy into usable energy in the form of ATP. They perform cellular respiration and are responsible for the complete oxidation of organic molecules to carbon dioxide.
17. Oxygen crosses the membrane by passive transport/ simple diffusion from the blood into the cell and then into the mitochondria.
18. 1—central vacuole, water storage and support for cell
2—nucleus, contains DNA which stores and replicates genetic information
3—chloroplast, photosynthesis
4—mitochondrion, cellular respiration
19. Chloroplasts act as the engines of photosynthesis. They contain chlorophyll, which absorbs light energy and are the site of the redox reactions that convert carbon dioxide and water into energy-rich carbohydrates and oxygen (as a waste product).

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Liying Dong



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