

# Module 16 Study Guide

## Modules 1-5

Author: Tyler Johnson

1. What is homeostasis? How does it regulate internal temperature?
2. Describe the function of the following systems for support, protection, and movement:
  - a. The axial skeleton consists of the skull, ribs, and vertebral column.
  - b. The pelvic girdle is made of 3 pairs of bones (2 ilia, 2 ischia, 2 pubes) that support the trunk, arms, and legs.
  - c. The femur is the longest bone in the body.
  - d. What is myoglobin? The oxygenated protein stored in skeletal muscle cells.
  - e. What is osteoblast? The process of bone formation.
  - f. What is osteoclast? The process that breaks up bone.
  - g. What is pH? Acid-base balance.
  - h. How does your body regulate pH during stress activities?
  - i. What is the pH of most body fluids?
  - j. How is ammonia related to acid-base? It acts as a buffer to reduce pH.
  - k. What is an enzyme? A biological catalyst.
  - l. What are the two types of chemical bonds that help maintain homeostasis? Ions and covalent bonds.
  - m. Describe the function of chemical bonding: ionic, covalent, and hydrogen bonds.
  - n. What is homeostasis? The body's ability to maintain a stable internal environment.
  - o. By what two things is homeostasis regulated? Temperature and energy.
  - p. What are three types of energy? Kinetic, potential, and thermal.
  - q. What is the relationship between heat and temperature? Temperature is a measure of the average kinetic energy of particles.
  - r. Name the types of chemical bonds: ionic, covalent, hydrogen, and van der Waals.
  - s. Identify the structure of each of the following organ systems:
    1. Digestive: digests food and absorbs nutrients from food.
    2. Circulatory: moves blood.
    3. Respiratory: takes in oxygen and removes carbon dioxide.
    4. What is a muscle? A contractile tissue that can shorten or lengthen.

# It Essentials Module 16 Study Guide Answers

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**It Essentials Module 16 Study Guide Answers:**

## Unveiling the Magic of Words: A Overview of "**It Essentials Module 16 Study Guide Answers**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**It Essentials Module 16 Study Guide Answers**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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web brands of buffer specific tanks on the market i m most familiar with this one it has seven 2 ports scattered around the tank and a few 3 4 on top anode rods can be added here if the tank is used for dhw and a 3 4 drain cock it can be used as a buffer with the ability to pipe in at the mid tank port

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web i piping diagrams figure 6 figure 7 notes this drawing is meant to demonstrate system piping concept only installer is responsible for all equipment and detailing required by local codes boiler circulator s must be rated for open loop applications do not use cast iron circulators boiler circulator s operate continuously

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web v buffer tank volume gallons t desired heat source on cycle min q heat source heat source output btu hr q min heat load heat output to minimum load tank temp rise deg f water to water heat pump example town and country mechanical wants a minimum heat pump on time of 10 minutes the heat pump output is 46 500 btu hr

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