

## Chapter Test B

### Thermodynamics

#### MULTIPLE CHOICE

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- \_\_\_\_\_ 1. When an ideal gas does positive work on its surroundings, which of the gas's quantities increases?
- a. temperature
  - b. volume
  - c. pressure
  - d. internal energy
- \_\_\_\_\_ 2. Air cools as it escapes from a diver's compressed air tank. What kind of process is this?
- a. isovolumetric
  - b. isobaric
  - c. adiabatic
  - d. isothermal
- \_\_\_\_\_ 3. In an isovolumetric process for an ideal gas, the system's change in the energy as heat is equivalent to a change in which of the following?
- a. temperature
  - b. volume
  - c. pressure
  - d. internal energy
- \_\_\_\_\_ 4. How is conservation of internal energy expressed for a system during an adiabatic process?
- a.  $Q = W = 0$ , so  $\Delta U = 0$  and  $U_i = U_f$
  - b.  $Q = 0$ , so  $\Delta U = -W$
  - c.  $\Delta T = 0$ , so  $\Delta U = 0$ ; therefore,  $\Delta U = Q - W = 0$ , or  $Q = W$
  - d.  $\Delta V = 0$ , so  $P\Delta V = 0$  and  $W = 0$ ; therefore,  $\Delta U = Q$
- \_\_\_\_\_ 5. An ideal gas system undergoes an isovolumetric process in which 20 J of energy is added as heat to the gas. What is the change in the system's internal energy?
- a. -20 J
  - b. 0 J
  - c. 5 J
  - d. 20 J
- \_\_\_\_\_ 6. Which of the following is *not* a way in which a cyclic process resembles an isothermal process?
- a. Energy can be transferred as work.
  - b. Energy can be transferred as heat.
  - c. The temperature of the system remains constant throughout the process.
  - d. There is no net change in the internal energy of the system.

# Assessment Chapter Test B

**Kathy Bonewit-West**



## **Assessment Chapter Test B:**

## **Assessment Chapter Test B** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Assessment Chapter Test B**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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