

Sample Test for Unit VII

Potentially useful equations:

$$Q = mc\Delta T \quad Q = mL \quad Q = mH_c \quad \varepsilon_c = 1 - \frac{T_c}{T_H} \quad \varepsilon = \frac{W}{Q_{in}}$$

Specific heat for water = $4186 \text{ J kg}^{-1}\text{C}^{-1}$

1. a) Define the kilocalorie.
b) How much heat energy in kilocalories is required to change 2.3 kg of water from 38°C to 45°C ?
2. a) Define Heat of Combustion.
b) A fuel-oil burning boiler is used to heat water from 20°C to 60°C . The Heat of Combustion for fuel-oil is $4.19 \times 10^7 \text{ J/kg}$. The boiler is 40% efficient. How much fuel-oil is required to heat 5000 kg of water?
3. Fifty grams of glycerine at 35.0°C is mixed with 1.00 kg of water at 20.0°C . Find the specific heat of glycerine if the equilibrium temperature is measured to be 20.42°C ; assume no heat losses or gains.
4. a) Sketch a typical phase diagram with two phase changes, labeling the axes and transitions. (Also think about what determines the slopes of the T - Q lines: How are they related to the specific heat capacity?)
b) Find the total heat energy required to change 2.0 kg of ice at -10°C into liquid water at 20°C . (Specific heat for ice = $2100 \text{ J kg}^{-1}\text{C}^{-1}$, Latent Heat of Fusion = $3.34 \times 10^5 \text{ J/kg}$, Specific heat for water = $4186 \text{ J kg}^{-1}\text{C}^{-1}$, Latent Heat of Vaporization = $22.6 \times 10^5 \text{ J/kg}$).
5. Define and provide an example for each of the three methods of heat transfer.
6. a) State the First Law of Thermodynamics.
b) State the Second Law of Thermodynamics.
7. a) Draw and label a schematic diagram of a heat engine.
b) Determine the Carnot efficiency of a steam turbine engine which operates between a high temperature of 550°C and a low temperature of 90°C .

Short Answers:

1. a) The kcal is the heat energy needed to raise 1 kg of water by 1°C (from 14.5°C to 15.5°C).
b) $Q = mc\Delta T$, where $c_{\text{water}} = 1 \text{ kcal kg}^{-1}\text{C}^{-1}$ ($= 4186 \text{ J kg}^{-1}\text{C}^{-1}$), so that
 $Q = (2.3 \text{ kg})(1 \text{ kcal kg}^{-1}\text{C}^{-1})(45^\circ\text{C} - 38^\circ\text{C}) = 16.1 \text{ kcal}$.

Unut Vii Test V1 Answers

Anthony S. Fauci



Unut Vii Test V1 Answers:

Decoding **Unut Vii Test V1 Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Unut Vii Test V1 Answers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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