

Name \_\_\_\_\_

## KEY

Period \_\_\_\_\_ Date \_\_\_\_\_

REVIEW QUESTIONS FOR FINAL EXAM (2<sup>nd</sup> Semester)

## SECTION 12.1

Heat Transfer:  $Q = mC\Delta T$  or  $Q = mc(C_f - C_i)$

Specific Heat of Common Substances			
Material	Specific Heat $J/kg \cdot K$	Material	Specific Heat $J/kg \cdot K$
aluminum	896	lead	126
iron	450	mercury	2350
carbon	714	silver	236
copper	386	water	4200
glass	800	ice	2090
oil	2090	iron	450
water	4200	lead	126

1) Two solid objects are in contact as shown below.

Heat will always flow from object A to object B if object B has a lower   
a) mass      b) total energy      c) specific heat  
d) temperature

For questions 2-3: The diagram below shows two solids with their temperatures ( $A=50^\circ\text{C}$ ,  $B=80^\circ\text{C}$ ).

2) What occurs when the two solids are placed in contact with each other as shown?

a) Heat energy flows from A to B. Solid A cools down.  
b) Heat energy flows from A to B. Solid A gets hotter.  
c) Heat energy flows from B to A. Solid B cools down.  
d) Heat energy flows from B to A. Solid B gets hotter.

3) The net flow of heat energy will stop from one object to the other when they both have the same

a) energy      b) temperature  
c) specific heat      d) all the answers are correct

4) How much heat is transferred when a 0.2 kg piece of copper's temperature is raised from  $50^\circ\text{C}$  to  $80^\circ\text{C}$ ?

$$Q = mc\Delta T$$

$$Q = (0.2\text{ kg})(385\text{ J/kg}\cdot\text{C})(80^\circ\text{C} - 50^\circ\text{C}) = 2310\text{ J}$$

5) A 0.5 kg block of lead cools down from  $30^\circ\text{C}$  to  $20^\circ\text{C}$ . How much heat was transferred?

$$Q = (0.5\text{ kg})(130\text{ J/kg}\cdot\text{C})(20^\circ\text{C} - 30^\circ\text{C})$$

$$Q = -650\text{ J}$$

6) The heat transfer of a substance is 9400 J. The mass of this substance is 2 kg and its temperature rises from  $80^\circ\text{C}$  to  $100^\circ\text{C}$ . Based on the specific heat that you will calculate for this substance, what is it?

$$C = \frac{Q}{m\Delta T} = \frac{9400\text{ J}}{(2\text{ kg})(100^\circ\text{C} - 80^\circ\text{C})} = 235\text{ J/kg}\cdot\text{C}$$

SILVER

7) From the choices below, which material would be better for a pan handle?

a) brass 376      b) silver 235      c) copper 385  
d) iron 450      e) zinc 377      f) lead 120

8) Provide a brief description of absolute zero and their temperatures in Kelvin (K) and degrees Celsius ( $^\circ\text{C}$ ).

The lowest temperature when all particle motion stops.  $T_c = -273^\circ\text{C}$ ,  $T_k = 0\text{ K}$ .

9) The boiling point of water is  $100^\circ\text{C}$ . The boiling point of water in Kelvin (K) will be

$$T_k = 273 + T_c = 273 + 100 = 373\text{ K}$$

10) A 1-liter of water taken out of a 5-gallon bucket full of water at  $20^\circ\text{C}$  will

a) register a lower temperature than that of the water left in the bucket.

b) have less thermal energy than that of the water left in the bucket.

c) have less specific heat than that of the water left in the bucket.

11)  $243\text{ K}$  in degrees Celsius ( $^\circ\text{C}$ ) is

$$T_c = T_k - 273 = 243\text{ K} - 273 = -30^\circ\text{C}$$

12) The kinetic molecular theory can explain the existence of thermal energy in a substance.

a) true      b) false

13) When using a thermometer for measuring the temperature of a substance, one should record the temperature

a) about 2 minutes after the thermometer has been placed in the substance. That is usually the time needed for the liquid inside to expand or shrink completely.

b) until thermal equilibrium has been reached

c) until all the heat from the substance has been transferred to the thermometer

d) until the thermal energy from the substance is equal to the thermal energy of the thermometer

e) all of the answers

14) A calorimeter contains 1 kg of water at  $20^\circ\text{C}$ . A 0.20 kg block of zinc at  $120^\circ\text{C}$  is placed in the water. What is the approximate final temperature of the system?

$$T_f = \frac{m_A C_A T_A + m_B C_B T_B}{m_A C_A + m_B C_B}$$

$$T_f = \frac{(1)(4110)(20^\circ\text{C}) + (0.2)(387)(120^\circ\text{C})}{(1)(4110) + (0.2)(387)} = 21.8^\circ\text{C}$$

$$T_f = \frac{8360 + 9312}{4257.6} = 21.8^\circ\text{C}$$

# Ap Spring Final Answer Key

**RS Peters**

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**Legacies VI** Peter Hayes,Jeffry Diefendorf,Dagmar Herzog,Holocaust Educational Foundation,2004 In the courtroom and the classroom in popular media public policy and scholarly pursuits the Holocaust its origins its nature and its implications remains very much a matter of interest debate and controversy Arriving at a time when a new generation must come to terms with the legacy of the Holocaust or forever lose the benefit of its historical social and moral lessons this volume offers a richly varied deeply informed perspective on the practice interpretation and direction of Holocaust research now and in the future In their essays the authors an international group including eminent senior scholars as well those who represent the future of the field set the agenda for Holocaust studies in the coming years even as they give readers the means for understanding today s news and views of the Holocaust whether in court cases involving victims and perpetrators international national and corporate developments or fictional documentary and historical accounts Several of the essays such as one on nonarmed amidah or resistance and others on the role of gender in the behavior of perpetrators and victims provide innovative and potentially significant interpretive frameworks for the field of Holocaust studies Others for instance the rounding up of Jews in Italy Nazi food policy in Eastern Europe and Nazi anti Jewish scholarship emphasize the importance of new sources for reconstructing the historical record Still others including essays on the 1964 Frankfurt trial of Auschwitz guards and on the response of the Catholic Church to the question of German guilt bring a new depth and

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