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| 1. Which of the following represents a different temperature than the other three?   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | 15°C | b. | 59°F | |  | c. | 475°K | d. | 519°R |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 2. Of the following choices, the warmest temperature is \_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | 20°C | b. | 303°K | |  | c. | 501°R | d. | 77°F |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 3. Temperature can be thought of as \_\_\_\_.   |  |  |  | | --- | --- | --- | |  | a. | the amount of heat in a material | |  | b. | the density of the material | |  | c. | a description of the level of heat | |  | d. | the weight of the total mass of the material |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 4. At standard conditions on the Celsius scale, water will boil at \_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | 100°C | b. | 212°C | |  | c. | 32°C | d. | 0°C |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 5. Pure water boils at a temperature of 212°F at which of the following standard conditions?   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | 12.696 psia | b. | 13.696 psia | |  | c. | 14.696 psia | d. | 15.696 psia |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 6. The temperature on the Fahrenheit scale where all molecular biology activity stops is \_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | -450°F | b. | -460°F | |  | c. | -0°F | d. | -462.95°F |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 7. The temperature on the Celsius scale where all molecular activity stops is \_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | -273°C | b. | -293°C | |  | c. | -460°C | d. | -459.6°C |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 8. As the temperature of a material increases, the molecules in the material \_\_\_\_.   |  |  |  | | --- | --- | --- | |  | a. | stop moving | |  | b. | travel faster | |  | c. | slow down | |  | d. | travel in more of a parallel direction |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 9. The Celsius equivalent of 80°F is \_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | 25.5°C | b. | 26.7°C | |  | c. | 26.3°C | d. | 27.5°C |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 10. How many Btus are required to change one pound of ice at 20°F to steam at 220°F?   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | 1,304 Btu | b. | 2,608 Btu | |  | c. | 6,520 Btu | d. | 3,912 Btu |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | Latent Heat | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 11. How many Btus are required to change five pounds of ice at 20°F to steam at 220°F?   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | 1,304 Btu | b. | 2,608 Btu | |  | c. | 6,520 Btu | d. | 3,912 Btu |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Latent Heat | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 12. How many Btus must be removed from one pound of water at 200°F for it to end up as ice at 30°F?   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | 144 Btu | b. | 828 Btu | |  | c. | 313 Btu | d. | 526 Btu |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Latent Heat | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 13. The amount of heat needed to change the temperature of a substance will vary with the type of substance. This heat quality is called the \_\_\_\_ of the substance.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | sensible heat | b. | specific heat | |  | c. | latent heat | d. | relative heat |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | Specific Heat | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 14. The standard atmospheric pressure at sea level is \_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | 29.60 in. Hg | b. | 29.71 in. Hg | |  | c. | 29.83 in. Hg | d. | 29.92 in. Hg |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | Atmospheric Pressure | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 15. PSIG indicates \_\_\_\_.   |  |  |  | | --- | --- | --- | |  | a. | pounds per square inch gravity pressure | |  | b. | pounds per square inch gauge pressure | |  | c. | pounds per square inch of pressure absolute | |  | d. | pounds per square inch of gravity |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | Pressure Gauges | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 16. A Bourdon tube is often found in a(n) \_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | mercury barometer | b. | aneroid barometer | |  | c. | pressure gauge | d. | mercury thermometer |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | Pressure Gauges | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 17. Water boils at 212°C.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | True / False | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 18. Water at 0°F has no heat energy or molecular activity.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | True / False | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 19. The Fahrenheit scale is used in the English measurement system by the United States.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | True / False | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 20. Temperature difference does not affect heat transfer rate.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *REFERENCES:* | Introduction to Heat | | *QUESTION TYPE:* | True / False | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 21. The difference in the volume of two substances will determine the heat transfer rate between the substances.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *REFERENCES:* | Introduction to Heat | | *QUESTION TYPE:* | True / False | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 22. The difference in the level of heat between two substances will determine the heat transfer rate between the substances.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *REFERENCES:* | Introduction to Heat | | *QUESTION TYPE:* | True / False | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 23. The laws of thermodynamics can help us to understand what heat is all about.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *REFERENCES:* | Introduction to Heat | | *QUESTION TYPE:* | True / False | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 24. Both sensible heat and latent heat transfers can be read with a thermometer.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *POINTS:* | 1 | | *REFERENCES:* | Sensible Heat Latent Heat | | *QUESTION TYPE:* | True / False | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 25. In order for water at 60°F to boil, it must absorb both sensible and latent heat.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *REFERENCES:* | Latent Heat | | *QUESTION TYPE:* | True / False | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 26. When water at 212°F boils, it is only absorbing latent heat.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *POINTS:* | 1 | | *REFERENCES:* | Latent Heat | | *QUESTION TYPE:* | True / False | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 27. The two common temperature scales used by air conditioning and refrigeration technicians are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.   |  |  | | --- | --- | | *ANSWER:* | Fahrenheit, Celsius Celsius, Fahrenheit | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 28. The Fahrenheit absolute scale is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ scale.   |  |  | | --- | --- | | *ANSWER:* | Rankine | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 29. The Celsius absolute scale is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ scale.   |  |  | | --- | --- | | *ANSWER:* | Kelvin | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 30. PSIA at sea level under standard conditions is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.   |  |  | | --- | --- | | *ANSWER:* | 14.696 psi | | *POINTS:* | 1 | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 31. Heat that changes the temperature of a substance is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ heat.   |  |  | | --- | --- | | *ANSWER:* | sensible | | *POINTS:* | 1 | | *REFERENCES:* | Sensible Heat | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 32. In \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ heat or hidden heat, heat is known to be added, but no temperature rise is noticed.   |  |  | | --- | --- | | *ANSWER:* | latent | | *POINTS:* | 1 | | *REFERENCES:* | Latent Heat | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 33. Raising the vapor temperature above the boiling point is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.   |  |  | | --- | --- | | *ANSWER:* | superheating | | *POINTS:* | 1 | | *REFERENCES:* | Latent Heat | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 34. Earth’s atmosphere exerts a weight or pressure of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ psi at sea level.   |  |  | | --- | --- | | *ANSWER:* | 14.696 | | *POINTS:* | 1 | | *REFERENCES:* | Atmospheric Pressure | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 35. Atmospheric pressure in inches of mercury (in. Hg) decreases \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in. per 1000 feet increase in elevation.   |  |  | | --- | --- | | *ANSWER:* | 1  one | | *POINTS:* | 1 | | *REFERENCES:* | Atmospheric Pressure | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 36. A gauge that reads pressures above and below atmospheric pressure is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gauge.   |  |  | | --- | --- | | *ANSWER:* | compound | | *POINTS:* | 1 | | *REFERENCES:* | Pressure Gauges | | *QUESTION TYPE:* | Completion | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 37. Define a Btu.   |  |  | | --- | --- | | *ANSWER:* | The amount of heat required to raise the temperature of 1 pound (lb) of water 1°F. | | *POINTS:* | 1 | | *REFERENCES:* | Introduction to Heat | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 38. What does the first law of thermodynamics state?   |  |  | | --- | --- | | *ANSWER:* | ​  The first law of thermodynamics states that energy can be neither created nor destroyed, but can be converted from one form to another. | | *POINTS:* | 1 | | *REFERENCES:* | Introduction to Heat | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 39. Explain heat transfer by conduction.   |  |  | | --- | --- | | *ANSWER:* | Heat transfer by conduction can be explained as the energy actually traveling from one molecule to another. | | *POINTS:* | 1 | | *REFERENCES:* | Conduction | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 40. What are the most common fluid mediums in the heating and air-conditioning trades?   |  |  | | --- | --- | | *ANSWER:* | The most common fluid mediums in the heating and air-conditioning trades are air and water. | | *POINTS:* | 1 | | *REFERENCES:* | Convection | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 41. Why is radiation the only type of heat transfer that can travel through a vacuum, such as space?   |  |  | | --- | --- | | *ANSWER:* | Because it is not dependent on matter as a medium of heat transfer. | | *POINTS:* | 1 | | *REFERENCES:* | Radiation | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 42. What is the difference between a mercury barometer and an aneroid barometer?   |  |  | | --- | --- | | *ANSWER:* | The mercury  barometer compares atmospheric pressure against the weight of a mercury column. The aneroid barometer compares atmospheric pressure against pressure inside closed bellows. | | *POINTS:* | 1 | | *REFERENCES:* | Atmospheric Pressure | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | False | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| *Match the temperature in degrees Celsius with the correct equivalent Fahrenheit temperature.*   |  |  | | --- | --- | | a. | 32°F | | b. | 1.4°F | | c. | 212°F | | d. | 50°F | | e. | -49°F | | f. | 77°F |  |  |  | | --- | --- | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Matching | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 43. 100°C   |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | |

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| 44. 0°C   |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | |

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| 45. 25°C   |  |  | | --- | --- | | *ANSWER:* | f | | *POINTS:* | 1 | |

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| 46. -45°C   |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | |

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| 47. 10°C   |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | |

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| 48. -17°C   |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | |

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| *Match the temperature in degrees Fahrenheit with the correct equivalent Celsius temperature.*   |  |  | | --- | --- | | a. | 35°C | | b. | -10°C | | c. | 200°C | | d. | 80°C | | e. | 15°C | | f. | 50°C |  |  |  | | --- | --- | | *REFERENCES:* | Temperature | | *QUESTION TYPE:* | Matching | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 49. 392°F   |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | |

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| 50. 59°F   |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | |

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| 51. 122°F   |  |  | | --- | --- | | *ANSWER:* | f | | *POINTS:* | 1 | |

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| 52. 14°F   |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | |

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| 53. 95°F   |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | |

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| 54. 176°F   |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | |

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| *Match the pressures in psia to the correct equivalent. (Use 15 as the conversion between psia and psig.)*   |  |  | | --- | --- | | a. | 5 psig | | b. | 30 in. Hg vacuum | | c. | 70 psig | | d. | 10 psig | | e. | 10 in. Hg vacuum | | f. | 14 in. Hg vacuum |  |  |  | | --- | --- | | *REFERENCES:* | Pressure Gauges | | *QUESTION TYPE:* | Matching | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 1/30/2020 3:39 PM | | *DATE MODIFIED:* | 1/30/2020 3:39 PM | |

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| 55. 10 psia   |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | |

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| 56. 85 psia   |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | |

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| 57. 8 psia   |  |  | | --- | --- | | *ANSWER:* | f | | *POINTS:* | 1 | |

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| 58. 0 psia   |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | |

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| 59. 20 psia   |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | |

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| 60. 25 psia   |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | |