Al Mutanabi School Science Department Grade: 8



United Arab Emirates Ministry of Education

Term 1 Final Revision

Chapter 1 Final Questions

Multiple Choice

1.	• The Celsius temperature at absolute zero is equal to						
	Α-	-100 □C					
	B-	100 □C					
	C-	273 □C					
	D-	– 273 □C					
2. In general, when a solid is heated, it							
	A-	expands with increasing temperature					
	B-	contracts with increasing temperature					
	C-	expands with decreasing temperature					
	D-	contracts with decreasing temperature					
3•	Which o	f the following statement(s) is/are true? Every substance contains heat. For heat to flow between two substances, they must be at different temperatures. The internal energy of a substance is equal to the kinetic energy of the molecules in the substance.					
	A-	I and II only					
	B-	II and III only					
	C-	II only					
4. A value of 25°C is a measurement of							
	A- B-	density. distance.					
	C-	mass.					
	D-	Temperature.					

5.	Potentia	l energy is sometimes calledenergy.						
	Α-	stored						
	B-	moving						
		still						
6.	Heat tra	nsfer in a swimming pool is						
	A-	Conduction						
	B-	Convection						
	C-	Radiation						
	D-	expansion						
7								
/•		n travel through a vacuum.						
		Sound						
	B-	Light						
8.		ch of the following is a measure of the average kinetic energy of the particles in a						
		ample of matter?						
		chemical kinetics						
	B-	thermochemistry						
		reaction rate						
	D-	temperature						
9.	Why do	hot air balloons rise?						
	A-	Thermal contraction						
	B-	Thermal conduction						
	C-	Thermal radiation						
	D-	Thermal expansion						
10. A heating appliance								
	A-	Converts heat energy into electrical energy						
	B-	Converts electrical energy into heat energy						
	C-	Converts electrical energy into mechanical energy						
	D-	Converts mechanical energy into electrical energy						

11. A thermo	ostat is used for				
A-	Produce heat				
B-	Conduct heat				
C-	Regulate temperature				
D-	Relocate temperature				
12. A bimeta	allic coil is made from how many types of coils?				
A-	1				
B-	2				
C-	3				
D-	4				
13. Heat tra	nsfer through space is				
A-	Conduction				
B-	Convection				
C-	Radiation				
D-	expansion				
14. Cool air t	flows				
A-	Upwards				
B-	Downwards				
C-	Sideways				
15. What turns thermal energy into mechanical energy?					
A-	Refrigerator				
B-	Heater				
C-	Heat engine				
D-	Air conditioning				
16. Approxim	mately how much of an automobile engine is converted to wasted energy?				
A-	20%				
	40%				
	60%				
D-	80%				
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17. Ther	mal	ener	gy is	the su	ım of		
			_		_		

- **A-** Kinetic energy and gravitational energy
- B- Kinetic energy and potential energy
- **C-** Kinetic energy and light energy
- D- Kinetic energy and electrical energy

18. Which is the highest temperature?

- **A-** 0 °C
- **B-** 53 °F
- **C-** 200 K
- **D-** 100 °C

19. A balloon is placed in a cold room. What process takes place inside the balloon?

- A- Thermal contraction
- **B-** Thermal conduction
- **C** Thermal radiation
- **D-** Thermal expansion

20. Heat transfer between 2 solids <u>touching</u> each other is_____.

- A- Conduction
- **B** Convection
- **C** Radiation
- **D-** expansion