Multiple Choice Questions' Bank:

1. Find the wrong stat	tement: Specific heat of	f a material	·			
(a) Constant for a material (c) Extrinsic property		(b) Heat capacity per unit mass (d) Has units as J/kg-K.				
2. Heat capacity has u	units as					
(a) J/kg.K	(b) J/mol.K	(c) J.ohm/sec.K ²	(d) W/m.K			
3. Units for thermal conductivity						
(a) J/kg.K	(b) J/mol.K	(c) J.ohm/sec.K ²	(d) W/m.K			
4. Lorentz constant has units as						
(a) J/kg.K	(b) J/mol.K	(c) J.ohm/sec.K ²	(d) W/m.K			
5. Thermal expansion of a material has units as						
(a) J/kg-K	(b) J/mol-K	(c) J.ohm/sec.K ²	(d) 1/°C			
6. Polymers have thermal conductivities in the range of						
(a) < 1	(b) 1-10	(c) 10-100	(d) >100			
7. Polymers have thermal expansion coefficients in the range ofx10 ⁻⁶ .						
(a) 0.5-15	(b) 5-25	(c) 25-50	(d) 50-400			
8. Coefficient of thermal expansion for ceramics is the range ofx10 ⁻⁶ .						
(a) 0.5-15	(b) 5-25	(c) 25-50	(d) 50-400			
9. Metals have thermal conductivities in the range of						
(a) < 1	(b) 1-5	(c) 5-25	(d) 20-400			
10. Heat capacity of most materials is approximately equal to						
(a) R	(b) 2R	(c) 3R	(d) R/2			

11. With increase in temperature, thermal conductivity of a metal						
(a) Increases	(b) Decreases	(c) Either	(d) A	ll, depending on metal.		
12. Thermal conductivity in polymers increases with						
(a) Increase in crystal	llinity (b) Decreas	se in crystallinity	(c) Either	(d) None		
Answers:						
1. c 2. b						
3. d 4. c 5. d						
6. a 7. d						
8. a 9. d						
10. c 11. d						

12. a