JUBAIL UNIVERSITY COLLEGE

Semester 312

Homework 2 Student Name:				Course: SCI 051, Physics Part	
			I.D:	section:	
Q.1	Ch	oose the correct answer:			
α			termal energy that flows from hot object to cold object is called		
	1.	a) temperature	c) heat		
		b) thermal energy	, and the second		
		of heat transferred" is what a) First law b) Second law c) Third law d) none of these.		esistor is	
		b) 24 Volt			
		c) 1.5 Volt			
		d) 0.6 Volt			
	4.	4. Temperature is generally proportional to a substance's			
		a) thermal energy	c) average translational k	inetic energy	
		b) Potential energy	d) vibrational kinetic ener	rgy.	
	5.	As more lamps are connectation increases. b) decreases. c) remain the same d) None of these.	ted to a series circuit, the overall c	current in the power source	

Q.2 True or False. <u>Underline</u> the wrong word if False and give the correct word on the space provided.				
1. Charged atom becomes negative charged when it loose electrons. (False. True)				
2. Battery produces alternating current. (False, True)				
3. Thick wire gives less resistance. (False, True)				
4. At constant voltage, electric current increase as resistance decreases. (False, True)				
5. When heat is applied, water warms up faster than sand. (False, True)				
Q.3 Answer completely.				
1) What is the power rating of a lamp connected to a 10 volt source when it carries 2amper?				
2) How is the direction of an electric field of positive and negative charge defined?				
3) Which generally expand more for an equal increase in temperature—solids or liquids? Why				
4) What is the effect on current through a circuit of constant resistance when the voltage is doubled? What if both voltage and resistance are doubled?				
5) To connect a pair of resistance so that their equivalent resistance is less than the resistance of either one, should you connect them in series or in parallel?				