Name:	 Student ID#	

We get energy from many different sources. Some are fuels that we extract by mining, and others are natural energy flows that we can trap.

- List five sources of energy (10 pts.)
- What is a renewable energy source? (5 pts.)
- How does energy use affect the environment? Give at least three examples and explain how the environment is affected. (8 points)
- Define energy in your own words? What are the units? (5 pts.)
- Define power in your own words? What are the units?(5 pts.)
- 6. Convert the following quantities to the units shown. (3 pts.)
  - a. 1 kI to Wh
  - b. 10,000 Btu to MJ
  - c. 1kWh to MJ
- How much energy in kilowatt-hours is consumed by a 1000 W microwave oven used for 5 minutes? (10 pts.)
- A clock radio consumes 240 Wh of electrical energy over a day. What is its power consumption? (10 pts.)
- If a refrigerator uses 2kWh of electricity per day and operates on the average only 20 minutes per hour, what is the power rating of the refrigerator motor? (10 pts.)
- 10. A sewing machine rated at 75 W consumes 675 Wh of energy over a week. How long was the machine used over the week? (10 pts.)
- What are three examples of energy consuming technology around your home? (3 pts). For these three determine: (21 pts.)
  - a. What is the type of the input energy?
  - b. What is the type of the output energy?
  - c. What is the type of the energy losses?