

## *Sample Quiz – Air & Forestry, Biomass and Energy*

NUTR 241A

Quiz 3

December 1, 2005

Name: \_\_\_\_\_

1. A coal-fired power plant burns coal with a heating value of 13,000 BTU/lb. It generates electricity with 35% efficiency. How much coal is burned to produce 1 kWh? (Use scientific notation and keep an appropriate number of digits.)

Conversion factors: 1 BTU = 1054 J; 1 cal = 4.18 J

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2. Give four major categories of windbreaks, and *briefly* give one specific benefit of each (i.e., something more specific than “it reduces the windspeed”).

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3. What does “MMTCE” stand for? What does that mean and why is such a thing needed?

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