

EASTERN UNIVERSITY, SRI LANKA

SECOND YEAR FIRST SEMESTER EXAMINATION IN AGRICULTURE 2004/2005

AEN 2101 ENVIRONMENTAL ENGINEERING (3:30/30)

PRACTICAL EXAMINATION

Answer all questions

Time: One hour

1. a) What do you mean by passive solar heat collectors?
b) What are the principles behind the active solar heat systems? Give three examples for active solar heat system?
c) Illustrate the distillation process by using solar still?
2. a) Illustrate the solar drying device and its operation?
c) Briefly describe the biogas production process?
d) What do you mean by geothermal energy?
3. a) What are the basic features of hydropower?
b) What are the two main technologies used to produce hydropower by using turbines?
c) List out the factors that determine the choice of turbine?
4. a) How can air pollutants be classified?
b) Write down the basic features of wind to be used as an energy source?
c) What are the effects of water pollution on public health and safety? Give examples for sources of water pollution in Batticaloa district? how can we control it?