

**EASTERN UNIVERSITY, SRI LANKA**  
**FACULTY OF AGRICULTURE**  
**SECOND YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE 2005/2006**  
**AEN 2101 ENVIRONMENTAL ENGINEERING (3:30/30)**  
**PRACTICAL EXAMINATION**

**Time Allowed: Three Hours.**  
**Answer All Questions.**

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1. a) What was the dominating species in the mangrove ecosystem you had observed at Sathurukkondan?  
b) List 5 morphological features of mangroves.  
c) What are the importance of mangroves in it's ecosystem?
  2. a) Enumerate five sources of pollution of the Batticaloa lagoon.  
b) Briefly explain the principle of sedimentation tanks found in a vehicle service station.  
c) How would you control the pollution in the Batticaloa lagoon?
  3. a) What were the more abundant wastes found in the land filling area of Thiruperumthurai?  
b) What is proposed to be built on the land filled area of Thiruperumthurai and what else could be done in the land filled area in future?  
c) List two possible problems that could arise in land fills.  
d) What are the methods of land filling?
  4. a) List the factors to be considered for an effective incineration.  
b) What are the problems found in incineration of hazardous wastes at the Batticaloa Teaching Hospital?  
c) How these problems could be solved?  
d) What are the disadvantages of recovery of energy from wastes?  
e) What is the future plan of the hospital to manage the hazardous/infective wastes? Suggest possible strategy to manage the hospital contagious wastes?
  5. a) What are the factors associated with the rate of decomposition?  
b) Write down the process of compost making.
  6. a) How would you determine the Batticaloa Municipal Waste?  
b) Write an essay on "efficient management of farm waste".