



Uva Wellassa University
Faculty of Science and Technology
Science and Technology Degree Programme
3 Year 2nd SEMESTER EXAMINATION- August/September, 2014

SCT 415 - 1 Green Technique for Industry

No. of pages : 02
No. of questions : 04
Time allocation : 01 hour
Marks allocation : 100
Answer All questions

1. A car washing and lubricating company has been in operation for several years in a terrain underlain by loosely compacted and sand mixed clay soil. The company is located close to an estuary branch where since they discharge all the disposals and waste generated by this activity directly into the estuary. The effluent contains a high level of oils and greases. All the dumping from the car maintenance goes directly into the soil since there are no gutters. The municipality has arranged an environmental inspection in response to complains of the people on this issue and you are a member of the inspection team.
 - a. What type of environmental analysis has to be performed by the municipality according to this case?
 - b. What type of professionals will be part of the consultancy group performing the assessment?
 - c. Mention three environmental impacts of this activity.
 - d. Mention three mitigation measures you will propose as part of your environmental analysis to mitigate the impacts identified. (25 mark)

2. "Adopting Green Techniques could help to reduce environmental impact and generate economic benefits in a traditional food processing factory". Elaborate and analyse the statement. (25 mark)

3. a. Prepare a process flow diagram for making wood apple jam in a factory. (10 mark)
b. Discuss responses of businesses to pollution. (15 mark)
4. a. Suppose you are working at a food processing company. You have been made responsible for reviewing your organisation's waste production and disposal. Discuss the environmental impact associated with waste disposal. (10 mark)
- b. Explain how you would identify sources of waste in your organisation (10 mark)
- c. What information would you need to record in order to effectively describe different types of waste you identify? (5 mark)