

**THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF ENGINEERING TECHNOLOGY
BACHELOR OF INDUSTRIAL STUDIES (INDUSTRIAL MANAGEMENT)**



FINAL EXAMINATION – 2007/2008

MEI6350 – SUSTAINABLE INDUSTRIAL DEVELOPMENT (LEVEL 06)

DATE : 11th MAY 2008
TIME : 0930 HRS. – 1230 HRS.
DURATION : THREE HOURS

40 035

ANSWER FIVE QUESTIONS ONLY. ALL QUESTIONS CARRY EQUAL MARKS.

- (1)
 - (i) What is meant by Corporate Social Responsibility (CSR)? Name four reputed companies, local or international that are practicing CSR ?
 - (ii) Explain why the organizations are keen on practicing concept of Green Marketing.
 - (iii) Who are the parties responsible for Green Consumerism? Explain.
 - (iv) What are the core objectives in an Eco Labeling Programme?
- (2)
 - (i) Could nuclear power be considered as a source of green power? Why or why not? Explain your answer.
 - (ii) Explain how the development of first steam engine contributed to industrial revolution.
- (3) Renewable energy sources are often viewed as inexhaustible, non-depletable and essentially "emissions-free," and therefore are highly attractive as alternatives to fossil and nuclear energy. Discuss the benefits and challenges of using renewable sources.
- (4)
 - (i) Define sustainable development and discuss some of the key issues that are essential in the process of sustainable development.
 - (ii) What is Pollution Prevention (P2)? Discuss the benefits of Waste Minimization.

- (5) (i) Explain the key issues in Life Cycle Assessment with an example.
- (ii) Which business benefits can possibly be achieved by using Eco Design principles?
- (6) (i) Describe three important features of the National Environmental Act of Sri Lanka (1980) and its amendments.
- (ii) What are the regulations governing Air quality and Water quality of Sri Lanka?
- (7) (i) There are many environmental, social and business benefits of having an accredited Environmental Management System (EMS). Discuss such benefits briefly.
- (ii) What is meant by nanotechnology? What are the products that have been developed using nanotechnology?
- (8) (i) Why is ecological back pack important in process analysis?
- (ii) Cost identification and cost estimation are two of the important steps that should follow for successful implementation of Environmental Management Accounting. Identify and explain these cost components.

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