

# UNIVERSITY OF COLOMBO, SRI LANKA

## FACULTY OF MANAGEMENT & FINANCE

Bachelor of Business Administration (Level II - Semester V) Examination, July 2017

### BEC 2223 – Environmental Management

Two (02) Hours

Answer Four (04) Questions in all, including Question No. 01.

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1. Over the past decades, human activities have lead to an increase in negative environmental concerns including climate change. As a result, organizations are attempting to consider about Environmental Management in achieving their goals. Environmental Management Systems (EMS) and Product Lifecycle Management are some of the strategies that are used to make the organizations more eco-efficient. In order to aid the organizations in becoming more environmentally sustainable, governments and intergovernmental organizations have introduced voluntary and regulatory provisions.
- i. Identify four (04) human actions which contribute to climate change. (04 Marks)
  - ii. Identify three (03) benefits of Environmental Management for a public organization which is managed with not-for-profit objectives. (04 Marks)
  - iii. State three (03) sources of international environmental law and provide one (01) example for each source. (06 Marks)
  - iv. Briefly explain the concept of 'Product Life Cycle Management'. (06 Marks)
  - v. Briefly describe three (03) strategies that can be implemented to make the distribution channel of an organization more eco-efficient. (10 Marks)
  - vi. Distinguish between an Environmental Impact Assessment (EIA) and an Environmental Management System (EMS). (10 Marks)

**(Total 40 marks)**

2. United Nations Environment Programme (UNEP) recognized 'microplastics' and Climate Change among the most severe threats to the eco-system of the world.
- i. Briefly describe three (03) negative impacts that are created by 'Microplastics'.  
(09 Marks)
  - ii. Discuss the relevance of risk reduction, risk retention and risk transfer, as strategies to mitigate the impacts of Climate Change with relevance to Sri Lanka.  
(11 Marks)
- (Total 20 marks)**
3. ISO 14001:2015 is a voluntary standard which provides guidelines to implement an Environmental Management System (EMS) in an Organization.
- i. Identify and briefly describe four (04) practical challenges that an organization may face, in implementing ISO 14001:2015.  
(08 Marks)
  - ii. Explain the Plan, Do, Check, Act (PDCA) process of ISO 14001:2015 and discuss its impact on the profit making potential of an organization.  
(12 Marks)
- (Total 20 marks)**
4. Environmental Risk Communication is an interactive process of exchanging information and opinions among individuals, groups, and institutions, on the risk types, assessment of risk levels and methods of managing it.
- i. Briefly describe three (03) strategies that will enhance the effectiveness of Environmental Risk Communication.  
(09 Marks)
  - ii. Discuss the positive and negative consequences faced by a business firm when it communicate its environmental impact to the general public.  
(11 Marks)
- (Total 20 marks)**
5. i. Compare and contrast an Environmental SWOT analysis with an Environmental SPOT analysis.  
(08 Marks)
- ii. Briefly describe any three (03) of the following.
    - a. Closed Loop Supply Chain
    - b. Environmental Audit (EA)
    - c. Green Washing
    - d. Carrying capacity of the eco system  
(04 Marks X 3=12 Marks)
- (Total 20 marks)**
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