

EASTERN UNIVERSITY, SRI LANKA FACULTY OF SCIENCE

THIRD YEAR EXAMINATION IN SCIENCE- 2020/2021 SECOND SEMESTER – JULY/AUGUST - 2024

EN3012 - RESOURCE EFFICIENCY AND CLEANER PRODUCTION

A	Answer all Questions Time Allower	
01.	*	
a)	What is Cleaner Production (CP)?	[10 Marks]
, b)	How does CP differ from end-of-pipe solutions?	[10 Marks]
c)	What are the main goals of CP?	[10 Marks]
d)	What are the key principles of CP?	[10 Marks]
e)	What is the role of innovation in CP?	[10 Marks]
f)	What are some contemporary approaches to CP?	[10 Marks]
g)	How does eco-efficiency relate to CP?	[10 Marks]
h)	What is sustainable production?	[10 Marks]
i)	How does the circular economy support CP?	[10 Marks]
j)	What is the first step in a CP assessment?	[10 Marks]
02.		
a)	What is the purpose of generating CP options?	[10 Marks]
b)	What is the role of employee involvement in CP option generation?	[10 Marks]
c)	How can technology scouting support CP?	[10 Marks]
d)	What are the key factors to consider in feasibility evaluation of CP option	ns? [10 Marks]
e)	What is the role of management support in CP implementation?	[10 Marks]
f)	How can employee training support CP implementation?	[10 Marks]
g)	What are common barriers in implementing CP?	[10 Marks]
h)	How can organizational culture impact CP?	[10 Marks]
i)	What are enabling measures for CP implementation?	[10 Marks]
j)	What is the role of technical support in CP?	[10 Marks]

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a) Explain the differences between eco-innovation and eco-design	gn. [30 Marks]					
b) Explain why businesses are embracing eco-efficiency.	[30 Marks]					
c) Briefly explain the 'green procurement'?	[40 Marks]					
04. Answer the following questions						
a. Define the term "Pollution"	[10 Marks]					
b. List the different types of Pollution.	[20 Marks]					
c. Comment on the causative agents of noise pollution and effect	ets. [30 Marks]					
d. Briefly describe the steps to control above stated pollution.	[40 Marks]					