

EXAMINATION AND EVALUATION DIVISION DEPARTMENT OF POLYTECHNIC EDUCATION (MINISTRY OF HIGHER EDUCATION)

CIVIL ENGINEERING DEPARTMENT

FINAL EXAMINATION
JUNE 2012 SESSION

CN101: INTRODUCTION TO ENVIRONMENTAL ENGINEERING

DATE: 18 NOVEMBER 2012
DURATION: 2 HOURS (11.15PM - 1.15PM)

This paper consists of SIX (6) pages including the front page.

Section A: Objective (20 questions – answer all question)

Section B: Essay (4 questions – answer 3 question only)

CONFIDENTIAL DO NOT OPEN THIS QUESTION PAPER UNTIL INSTRUCTED BY THE CHIEF INVIGILATOR

(CLO stated at the end of each question is referring to the learning outcome of the topic assessed. The CLO stated is only for lectures' references.)

SECTION A

OBJECTIVE QUESTIONS (40 marks)

Instruction: This section consists of 15 fill in the blank questions and 5 true or false questions. Write your answers in the answer booklet.

1.	"The application of science and engineering principles to improve the natural environment, to provide healthy water, air, and land for human habitation (house or home) and for other organisms, and to remediate polluted sites." This statement is referring to	CLO 1 : C1
2.	The global sum of all ecosystems is	CLO 1 : C1
3.	Common types of pollution are and	CLO 1 : C1
4.	"The contaminants into a natural environment that causes instability, disorder, harm or discomfort to the ecosystem i.e. physical systems or living organisms." This statement is referring to	CLO 1 : C1
5.	"The contamination of the physical and biological components	CLO2 : C1
	of the earth/atmosphere system to such an extent that normal	
5.	environmental processes are adversely affected." This statement is referring to The pollution caused by power plants and urban sprawl is	CLO 2 : C2
٠.	involves any contaminated water, whether from chemical, particulate, or bacterial matter that degrades the water's quality and purity.	CLO 2 : C1
	The source of noise pollution is	CLO 2 : C1

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9.	"Provide facility for waste water treatment and its sewerage	CLO 2: C1
	system and emptying individual septic tank"	
	The statement above describes the role of	
10.	In Malaysia, the Department of Occupational Safety and Health	CLO 2: C1
	(DOSH) under the is responsible	
	to ensure that the safety, health and welfare of workers in both	
	the public and private sector are upheld.	
11.	and climate change refer to an	CLO 2: C4
	increase in average global temperatures	
12.	The emphasis on human interests and their survival in the future	CLO 2 : C1
	in Environmental Ethics is referring to	
		GLO A GA
13.	Code of Environmental Ethics is	CLO 2 : C4
14.	Greenhouse gases are,	CLO 2 : C4
17.	, and	CLO 2 . CT
15.	EPA stands for	CLO 2 : C2
16.	Wind can disperse the pollution from its sources to other places	CLO 1 : C1
	(True or False)	
17.	Air pollution, whether from chemical, particulate, or bacterial	CLO 2 : C1
	matter that degrades the water's quality and purity.	
	(True or False)	
18.	Soil pollution sources are hazardous waste and sewage spills	CLO 1:C1
	(True or False)	

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- 19. Act relating to air pollution is Environmental Quality Act CLO 2: C4
 (Dioxin and Furan) Regulations 1984
 (True or False)
- 20. Lifestyle, sustainable consumption and production are among CLO 2: C4 the goals established by the National Environmental Policy (True or False)

QUESTION 3

(a) List down FOUR (4) government agencies / private sector CLO 2: C1 responsible in managing environment and the roles of each government agencies / private sector. (8 marks)

(b) Describe briefly the purpose of raw water treatment process. CLO 2 : C3 (12 marks)

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QUESTION 4

(a) List SIX (6) Environmental Quality Regulations 1974. CLO 2 : C1 (6 marks)

(b) Describe briefly **FOUR** (4) principal of National CLO 2 : C4
Environmental Policy. (8 marks)

(c) Explain briefly Environmental Quality Act 1974 CLO 2 : C4

(6 marks)