Sample

The Open University of Sri Lanka

M.Sc. in Environmental Sciences – 2015/16

Eco Toxicology and Pollution Management- NEP2223 – Level 8

Continuous Assessment Test II (No Book Test)

Duration: one hour



Date:	20 th	August 2016 T	Time: 4.15 p.m. – 5.15 p.m.
Answ	er all	the questions	
1. a.	ì.	Define primary, secondary and tertiary structure of a p	protein. (15 Marks)
	ii.	What are the forces that stabilize the tertiary structure	e? (10Marks)
b.	i.	Write the complementary DNA strand for the single strand of DNA segment given below. ATCGTTGCCATG	
		MI CGII GC	(10 Marks)
	ii.	'Mutations in proto oncogenes and tumor suppressor Explain.	genes lead to cancer" (20 Marks)
	iii. 'Acetycholine esterase (AChE) is an enzyme which is necessare neurotransmission'. Explain the mechanism of neurotoxicity of organoph pesticides with regards to AChE.		· · · · · · · · · · · · · · · · · · ·
		pesticides with regards to richib.	(10 Marks)
c.	i. Toxicity can occur by accumulating environment chemicals in different tissues the body. Give an example for environment chemicals which can be accumula in following tissues (Write one example for each tissue)		ls which can be accumulated
		Kidney, teeth, hair, adipose tissue (Fat tissues) and be	ones (15 Marks)
•	ii	'Heavy metals can transform a cell to a cancerous ce Briefly explain or illustrate the steps involved.	ell or can undergo apoptosis'. (20 Marks)

- 2. a. Briefly describe the major points to be considered in designing a laboratory toxicity test.

 (20 marks)
 - b. State the important characteristics of a test organism to be considered when selecting for standard laboratory toxicity test (15 marks)
 - c. Describe the different types of laboratory toxicity test design methods (20 marks)
 - d. Briefly describe the advantages and disadvantages of the above described design methods

 (45 marks)
