Eastern University, Sri Lanka **Faculty of Science**

First Year First Semester Examination in Science 2016/2017 (Aug./Sep. 2018)

BT 105, Introduction to Environmental Sciences (Old Syllabus)

Time: 1 hour

Answer all the questions

1.	(a) Define "residence time" in Lakes?	(15 marks)
	(b) What is the formulae used to calculate the residence time?	(10 marks)
	(c) Explain the residence time by giving THREE examples	(25 marks)
	Question 1:	50 marks
2.	Answer the following, with illustrations if appropriate	
	(a) What are the major components of an ecosystem?	(05 marks)
	(b) Briefly explain the "Energy Pyramid"	(10 marks)
) Give one example of a food chain for a paddy field and a home-garden (10 marks)	
	(d) Diagrammatically illustrate the water cycle	(10 marks)
	(e) List FIVE negative impacts due to forest destruction/deforestation	(05 marks)
	(f) Briefly describe the impacts of climate change on environment	(10 marks)
	Question 2: 50 mark	

Total = (50 + 50) = 100 marks