

Uva Wellassa University of Sri Lanka  
Faculty of Science and Technology  
Department of Science and Technology  
300 Level 1<sup>st</sup> Semester Examination – June/July 2017



MRT 323-1 Pollutant Transport in Water

Total number of questions: Two (02)

Answer all questions

Time Allocated: One (01) hour

Mark Allocation: 100

1.

(a) Explain how particles found in surface water affect the transport of pollutants.  
(10 marks)

(b) What are the Fickian transport processes of solutes? Describe them in detail.  
(15 marks)

(c) How are solutes transported in a lake? Explain seasonal stratification of lakes in temperate climates.

(d) Describe the mechanism of mixing process in a salt wedge.  
(15 marks)

(10 marks)

2.

(a) Write a detailed account on pollutant transport in aquifers.  
(20 marks)

(b) Explain how transport of pollutants is retarded in groundwater environments.  
(15 marks)

(c) Briefly describe the methods of restoration of contaminated aquifers.  
(15 marks)

