

THE OPEN UNIVERSITY OF SRILANKA  
 POST GRADUATE DIPLOMA/M. Sc. IN ENVIRONMENTAL  
 SCIENCE  
 FINAL EXAMINATION 2013/14 – LEVEL 7  
 NEP 2209 – AQUATIC RESOURCES AND THEIR MANAGEMENT  
 DURATION – 3 HOURS




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DATE: 05.04.2014

TIME: 1.30 p.m. – 4.30 p.m.

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Answer any four (4) questions

1. (i) Describe the occurrence of subsurface waters using fully labeled diagrams.  
 (ii) Discuss the ground water pollution issues in Sri Lanka.
2. The algal bloom problem observed in a reservoir was not occurred after taking proper controlling measures.
  - (i) Discuss the factors responsible for blooms formation in reservoirs.
  - (ii) Briefly discuss the possible controlling techniques to control eutrophication and blooming.
3. Discuss the anthropogenic activities with respect to the ecological balance in Mundel Lake.
4. (i) Describe the factors that lead to coastal erosion in the southwestern region of Sri Lanka.  
 (ii) Explain the coastal protection techniques that have been applied to protect the coastal area.
5. In order to implement an environmental management programme, a participatory approach is necessary with community, governmental and non governmental organizations. Considering mangrove area management as the section of interest;
  - (i) Identify priority topics for public education.
  - (ii) Identify different target groups needed to be educated and two educational objectives for each group.
6. Discuss the major environmental issues encountered in southern coastal zone of Sri Lanka due to tourism.
7. Write notes on any two (2) of the following;
  - (a) Physicochemical characteristics of 1<sup>st</sup> order streams
  - (b) Classification of lakes based on thermal stratification
  - (c) Commonly used fishing gears in Sri Lanka