THE OPEN UNIVERSITY OF SRILANKA
M. Sc. IN ENVIRONMENTAL SCIENCE
FINAL EXAMINATION 2015/16 – LEVEL 7
NEP2209/NEP2219
AQUATIC RESOURCES AND THEIR MANAGEMENT
DURATION – 3 HOURS

DATE: 05.11.2016 **TIME: 1.30 p.m. – 4.30 p.m.**

Answer any four (4) questions

1. (i) Describe the occurrence of subsurface waters using fully labelled diagrams. (60 marks)

   (ii) Discuss the ground water pollution issues in Sri Lanka. (40 marks)

2 A decision has been taken by the government authorities to convert completely a sediment filled wetland into a playground. Write a short newspaper article to enlighten general public about the importance of retaining this wetland suggesting the need to change the decision in an environmental friendly manner. (100 marks)

3 (i) Explain the causes for eutrophication took place in the Kotmale reservoir. (40 marks)
(ii) Discuss the preventive measures to control eutrophicaton process. (60 marks)

4. (i) Explain the consequences of over exploitation and destruction of mangrove ecosystems. (55 marks)

   (ii). What are the management practices that can be adopted to improve mangrove ecosystems in Sri Lanka? (45 marks)

5. (i) Explain the human activities that have degraded the Mundal lagoon in Sri Lanka. (65 marks)

   (ii) Discuss the ways by which the condition of the lagoon can be restored. (35 marks)

6. Implementation of an environmental management programme will be successful only if there is a change in people's attitudes and behaviours through education. Considering coastal resource management as the area of interest;
   (i) Identify primary topics for public education (30 marks)
   (ii) Identify 10 (ten) different target groups needed to be educated and education objectives for each group (60 marks)

7. Write notes on any two (2) of the following;
   (a) Properties of water in relation to the structure of its molecule
   (b) Coastal protection techniques to protect the coastal area.
   (c) The marine fishery resources of Sri Lanka

   (50 marks for each)

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