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RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES

B.Sc. (Special) Degree in Applied Biology
Fourth Year – Semester II Examination – April/May 2016

BIO 4210 – AQUATIC RESOURCES AND CONSERVATION

Time: Two (02) hours

Answer four (04) questions including question No. 1.

1. Write short notes on any **four (04)** of the following.
 - a) Great Pacific garbage patch
 - b) Thermocline
 - c) Three basic tidal patterns
 - d) Oxygen sag curve
 - e) Drainage patterns
2.
 - a) What is meant by elemental pollution?
 - b) Explain in detail, the anthropogenic impacts on trace element pollution in freshwater environments with appropriate examples.
3.
 - a) Why water is considered as a renewable resource?
 - b) ***“In ancient cultural context, water management was not taken as an isolated issue ”***
Justify the above statement, comparing with the modern methods of water management.
4.
 - a) State the factors that should be considered to show the importance of phosphorous for organisms.
 - b) Discuss the human impacts on phosphorous cycle.
 - c) Illustrate the “Phosphorous cycle” using a diagram.
 - d) Comment on each step in the above illustration.
5. ***“The thermohaline circulation is a part of the ocean circulation which is driven by density differences in the water.”***
 - a) Explain succinctly the reasons for “density differences” in the ocean.
 - b) Evaluate the importance of “thermohaline circulation”.