RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES

B.Sc. (Special) Degree in Applied Biology
Fourth Year - Semester I Examination – October/November 2017

BIO 4202 – ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL POLICY ANALYSIS

Time: Two (02) hours

Answer any <u>four (04)</u> questions including question no <u>one (01)</u>

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1. The Government of Sri Lanka seeks to establish an expressway from *Kadawata* to *Kandy*. The main objective of this project is to provide easy access from *Kandy* to *Colombo*. Assuming that you are the team leader of the consultancy firm which has won the contract to undertake Environmental Impact Assessment (EIA), study on the said development project which is prescribed under provisions of the National Environmental Act. Under the provisions of NEA, an EIA used to be done.

   a) Discuss the logical steps in the EIA process that your study team is likely to follow in order to achieve the EIA task assigned to you, in the process identify the need for an interdisciplinary team for this study. **(08 marks)**

   b) Explain giving reasons, who you would consider as key stake holders in the EIA study process. **(06 marks)**

   c) State **five (5)** issues that you would when determining consider the scope of the EIA study. **(05 marks)**

   d) Discuss factors that you may consider in order to determine the significance of environmental impacts of the proposed project. **(06 marks)**

2. "A major new township development with total area of 1000 ha is expected to boost the economy of Mattala town. To develop this estate freshwater will be carried via a tunnel from Uma Oya. It will involve relocation of 800 families from three traditional villages. This project would have impacts on two major aquifers of Uma Oya in the Uva province. As the project is economically driven rather than environmentally acceptable, the environmental pressure groups are against the project being approved. Mattala town would requires an EIA to be carried out within three months to prove that the project will be beneficial if the proposed mitigatory measures are good. However, to have good monitoring the impacts should be properly predicted.

Discuss the methods needed to predict the impacts on the following categories as a result of this project.

a) impacts on ecological environment   c) Impacts on social environment
b). impact on surface and ground water   d) geotechnical impacts
e) impacts on soil   **(25 marks)**

.3. "Some recommendations of Environmental Impact Assessment (EIA) are difficult to implement". Justify the statement citing suitable examples.   **(25 marks)**

4. "Cost benefit analysis in the decision making process of multipurpose project is an essential steps in the impact assessment process". Discuss this statement using appropriate examples"
                                                                                                        (25 marks)

5. Write short notes on the any **two (02)** of the followings;

   a) different types of EIA impact identification methods
   b) public opinion and their participation in the EIA process
   c) importance of selecting alternatives during EIA process   **(25 marks)**

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