

THE OPEN UNIVERSITY OF SRI LANKA
DIPLOMA IN ENVIRONMENTAL SCIENCE
BYD1206- BIODIVERSITY



FINAL EXAMINATION – 2017/2018

DURATION – TWO (02) HOURS

Date: 12th May 2018

Time: 1.30 – 3.30 pm

Answer any four (04) questions

1. (a) Name the main components of an ecosystem.
(b) Briefly explain the importance of each component for functioning of an ecosystem.
(c) List the main differences between a natural and a man-made ecosystem.
2. (a) What are the major causes of deforestation in Sri Lanka?
(b) Discuss the consequences of deforestation.
(c) Briefly explain how deforestation causes the soil erosion.
3. (a) Briefly explain the impacts of modern agriculture on the environment.
(b) Discuss the contributions made by species diversity for proper functioning of a natural ecosystem.
4. (a) Explain the term sustainability?
(b) With the help of three (03) examples, briefly explain the sustainable practices of traditional Sri Lankan agricultural systems.
5. (a) Explain the terms “In-situ” and “Ex-situ” in relation to conservation of biodiversity.
(b) What are the limitations found in Ex-situ conservation procedure?
(c) Briefly explain the factors to be concerned in management of rare and endangered animals.
6. Write short notes on any two of followings.
 - (a) Traditional societies and their ecological knowledge.
 - (b) Biotechnology application in biodiversity assessments.
 - (c) Multilateral Environmental Agreements.