

The Open University of Sri Lanka
Faculty of Natural Sciences
B.Sc/ B. Ed Degree Programme



Department	: Botany
Level	: Level 05
Name of the Examination	: Final Examination
Course Title and Code	: FOREST MANGEMENT AND ITS CONSERVATION-BYU5307
Academic Year	: 2025/2026
Date	: 08.01.2026
Time	: 1.30 p.m. – 03.30 p.m.
Duration	: Two (02) Hours

General Instructions

1. Read all instructions carefully before answering the questions.
2. This paper contains **six (06) questions** and are expected to **answer four (04) questions**.
3. All questions carry equal marks.
4. Answer to each question should commence from a new page.
5. Involvement in any activity that is considered as an exam offense will lead to punishment
7. Clearly state your index number in your answer script

1. Different climatic, geological (including elevation), and edaphic factors of Sri Lanka have contributed to the country's diverse and rich vegetation types. **Justify this statement with reference to the different forest types found in Sri Lanka**

2. Write short notes on the following

- a) Indirect market price techniques used for valuing non-tangible forest products.
- b) Characteristics of invasive species and their nature of encroachment into forest gaps.
- c) Comparison between *top-down* and *bottom-up* approaches in forest resource investigation.
- d) Community involvement in sustainable forest management in Sri Lanka.

3. "Scientific nursery management, timber seasoning, and preservation are equally important components of sustainable forest management practices." **Comment on this statement with reference to the following aspects:**

- a) Pre-sowing treatments for dormancy breaking of forest nursery seeds.
- b) Forest nursery pests and integrated pest management techniques.
- c) Scientific timber seasoning methods.
- d) Timber preservation techniques to enhance wood durability

4.

- a) Define the term *Silvicultural System*.
- b) Briefly describe the main three (03) processes and basic goals of silvicultural

practices.

- c) List the silvicultural practices that can be applied to (i) even-aged forest plantations and ii) uneven-aged natural forests.
- d) Compare the *clear-cut system* and the *single-tree selection system*.

5 “Forest conservation and protection are equally important components in the sustainable management of natural forests.”

- a) Distinguish between *forest conservation* and *forest management*.
- b) List the protected areas managed by (i) the Department of Forest Conservation and (ii) the Department of Wildlife Conservation in Sri Lanka, providing appropriate examples for each.
- c) Describe deeply the main implications and strategies of *Forest Sector Master Plan (1985)* in Sri Lanka.

- 6. a) Define *Agroforestry*.
- b) List ten (10) major ecological and economic benefits of agroforestry.
- c) Briefly describe the special characteristics of plant species used in agroforestry systems.
- d) Explain the *tropical SALT system* (Sloping Agricultural Land Technology) and outline its major developmental steps.

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