

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



Department	: Botany
Level	: 05
Name of the Examination	: B.Sc. Degree Programme-Final Examination
Course Title and - Code	: Plant Growth and Development BYU5302
Academic Year	: 2023/2024
Date	: 22nd October 2023
Time	: 9.30 a.m. 11.30 a.m.

General Instructions

1. Read all instructions carefully before answering the questions.
 2. This question paper consists of **06** questions in **03** pages.
 3. Answer any **04** questions only. All questions carry equal marks.
 4. Answer for each question should commence from a new page.
 5. Draw fully labelled diagrams where necessary
 6. Involvement in any activity that is considered as an exam offense will lead to punishment
 7. Use blue or black ink to answer the questions.
 8. Clearly state your index number in your answer script
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3.

- a. List the important properties of wood and timber.
- b. Explain how timber seasoning and various preservative techniques contribute to enhancing the durability of commercial timber products.

4. *"In forest resource management surveys, two major methods are employed: top-down and bottom-up approaches".*

- a. Outline the major differences between top-down and bottom-up approaches.
- b. Provide a brief overview of different categories/events utilized in the "Pattern Recognition of Forests" using Remote Sensing Data.
- c. Briefly explain the technical procedures utilized for assessing 'Forest Health' with the aid of Remote Sensing Data.

5. "Effective Forest conservation strategies require the local community involvement"
Comment on this statement with suitable examples from Sri Lanka.

6. Write short notes on the following.

- a. Main categories of non-wood forest products.
- b. Prominent Agro-forestry systems in tropical and temperate regions
- c. Methods involved in plywood manufacturing.
- d. Application of natural gap opening processes in sustainable silviculture practices

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