



The Open University of Sri Lanka
 Faculty of Engineering Technology
 Bachelor of Industrial Studies Honors (Agriculture)
 Final Examination- 2023/2024

AGX5565- Soil Plant Water relationship

Date : 01-03-2025
 Time : 1330-1630

SECTION II -Answer any four (04) questions.

- (1). (a) Briefly explain the components of soil water potential.
 (b) Discuss the relationship between the soil water potential and soil water content using Soil moisture Characteristic Curve.
- (2). Briefly discuss four (04) methods of measurement of Soil Water and the advantages and disadvantages of each method.
- (3). (a) Briefly explain transpiration in plants.
 (b) Explain the factors affecting transpiration.
- (4). (a) Briefly explain the Composition of soil air.
 (b) Explain the factors affecting the soil aeration and the harmful effects of poor aeration.
- (5). (a) Briefly explain the soil degradation.
 (b) Describe the types of degradation and the degradation process in detail.
- (6). Write a brief note on any **three (03)** of the following
 - (a) Reclamation of Sodic Soils
 - (b) Gross Irrigation Requirement
 - (c) Nitrogen Cycle
 - (d) Factors influencing Effective Rainfall.

End of the paper