THE OPEN UNIVESITY OF SRI LANKA
B.Sc. DEGREE PROGRAMME
BOTANY – LEVEL 05
FINAL EXAMINATION – 2011/12
BOU3104/BTU3105/BTE5105 – SOILS AND PLANT GROWTH



DURATION - TWO HOURS

Date - 30th November 2012

Time - 09.30 a.m. - 11.30a.m.

Answer any four (04) questions.

- 01. a. What is a mineral?
 - b. Distinguish between a primary mineral and a secondary mineral.
 - c. Briefly explain the constructive process of soil development.
- O2. Explain concisely how soil Nitrogen is made available for plant growth, the factors that affect on the status of soil Nitrogen and how they occur in plants.
- 03. a. What are the major functions of soil bacteria and soil fungi?
 - b. Discuss the physical and chemical functions of organic matter in soil.
- 04. a. What is green manuaring?
 - b. List the factors one should look for when choosing a green manuaring plant.
 - c. Explain briefly the effects of cover and green manure crops on soil.
- 05. a. How do acidic and saline soils develop?
 - b. Write an essay on "improvement of acidic and saline soils through soil amelioration" indicating effects and management practices.
- 06. Write short notes on any two (02) of the following.
 - a. Soil development and topography
 - b. Porosity and weight of soil
 - c. Morphology and fertility characteristics of major soil types in wet and dry zones

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