

**Federal University of Technology Owerri**  
**School of Agric. and Agric. Technology, Department of Soil Science Technology**  
**Harmattan semester examination, 2014/2015 session.**  
**Soil Morphology , SST 413. Time allowed: 3 hours**  
**Instruction: Answer five questions.**

1. Discuss the sequential evolution of soil horizons in a sediment parent material.
- 2(a). Discuss the processes in soil horizon formation.  
(b). What are transitional horizons  
(c). Differentiate between EB and BE horizons.
- 3(a). Explain in details, Soil colour  
(b). State the factors that affect Soil colour  
(c). Differentiate between 10YR 6/4 and 2.5YR 3/3 munsell colour notations
- 4(a). Differentiate between **illuvial** and **elluvial** horizons.  
(b). Explain the meaning of the following subordinate distinctions within master horizons  
(i) hs (ii) ss (iii) p (iv) w (v) g  
(c). Distinguished between **Field morphology** and **Micro morphology**
5. Write extensively on Soil texture and Soil structure as important soil morphological features

