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FEDERAL UNIVERSITY OF TECHNOLOGY OWERRI  
SCHOOL OF AGRICULTURE AND AGRICULTURAL TECHNOLOGY  
DEPARTMENT OF SOIL SCIENCE AND TECHNOLOGY  
2019/2020 SESSION HARMATTAN SEMESTER EXAMINATION.

**COURSE TITLE : SOIL GENESIS AND CLASSIFICATION**

CODE: SST 401: TIME : 3 hours

**INSTRUCTIONS: ANSWER FIVE QUESTIONS WITH AT LEAST TWO FROM EACH SECTION.**

**SECTION A**

- 1 (a) What is pedogenesis  
(b) Classify pedogenetic process in a soil system ✓
- 2 With examples explain types of rocks
- 3 In what ways can climate influence soil formation ✓

**SECTION B.**

- 4 (a) Explain in details Land Capability Classification  
✗ (b) What are the relevance of land capability classification in field studies ✓
- 5 Explain the following (~~characteristics~~)  
(a) melanic epipedon (b) ~~Natural classification~~ ✓  
(c) Spodic horizon (d) umbric epipedon (e) oxic horizon (f) mollic epipedon ✓  
*ochric epipedon*
- 6 Discuss in details  
(a) lithologic discontinuity (b) xeric moisture regime (c) paralithic contact  
(d) mesic soil temperature regime  
(e) Hyperthermic temperature regime