

**FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA**

**SCHOOL OF PHYSICAL SCIENCES**

**DEPARTMENT OF GEOGRAPHY**

**SECOND SEMESTER 2015/2016 SESSION UNDERGRADUATE EXAMINATION**

**COURSE CODE:** GRY524

**COURSE TITLE:** Soil Geography (3units)

**INSTRUCTION:** Answer **any four** Questions (Credits will be given for proper usage of relevant illustrations and diagrams)

**TIME ALLOWED:** 2hrs

1. Appraise current national programmes and action plans on soil conservation in Nigeria.
2. Using detailed diagrams and illustrations, differentiate between the following soil texture, soil mixture and soil structure.
3.
  - a. Sketch a complete labeled diagram of simple soil profile
  - b. Describe the characteristics of the zones in the soil profile drawn in (a) above, and give reasons for each characteristics
4. Critically examine the process of soil erosion and its socio-economic implications in any part of Nigeria.
5. Discuss the roles of climate and parent materials in the evolution of soils, taking due cognizance of climate change impact.
6. Write explanatory notes on the following in soil profile differentiations
  - A. Illuviation.
  - B. Elluviation.
  - C. Soil acidity.