Federal University of Technology, Owerri
School of Agriculture and Agricultural Technology
Department of Soil Science and Technology

Rain Semester Examination   2014/2015 Session
Fertilizer Technology   AGR 308
Time Allowed   2hrs
Instruction to Candidates: Attempt Any Five Questions

1(a) What are the importance of GIS in Agriculture

(b) Explain the term Geographic Information System and mention the 5 major components of a GIS.

2(a) Discuss the two generalized processes of the electromagnetic remote sensing of earth resources

(b) Define the following terms with examples
(i)   Active sensors (ii) passive sensors

3(a) Outline the advantages of digital mapping over analogue mapping

(c) Define the following terms
(i)   Computer Assisted Drafting (CAD) (ii) computer Assisted mapping (CAM)   (iii) computer Assisted cartography (CAC)

4(a) what is precision Agriculture (PA)

(b)Explain four (4) aims of precision Agriculture (PA) in crop production

(c)For precision Agriculture to be actualized, some basic processes must be followed. Sequentially and concisely describe these five (5) processes.

5(a) precision Agriculture (PA) is also termed variable rate technology. Carefully describe five (5) areas to which this technology can be applied in crop production.

(b) Clearly explain five (5) disadvantages of PA.

6(a) Define yield mapping concept

(b)List the seven basic components of a grain yield mapping system and functions.