



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
SEPTEMBER, 2020_1 EXAMINATION

COURSE CODE: ESM 421

COURSE TITLE: ELEMENTS OF LAND SURVEYING

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

Instruction: Attempt question number ONE (1) and any other THREE (3) questions. Question number one (1) carries 25 marks, while the other questions carry (15) marks each.

- (1) (a) What is chain survey? **(5 marks)**
(b) Examine the purpose of chain survey. **(7 marks)**
(c) Explain prismatic Compass. **(9 marks)**
(d) Describe Drawing Board or Plane Table. **(4 marks)**

- (2) (a) Classify Surveying on the basis of instrument used. **(7 marks)**
(b) Explain the meaning of Plane tabling. **(8 marks)**

- (3) (a) Explain the sources of Errors in Chain Survey. **(11 marks)**
(b) Discuss Geodetic Surveying. **(4 marks)**

- (4) (a) What is leveling? **(3 marks)**
(b) Describe the instruments used in leveling. **(12 marks)**

- (5) (a) Describe the Alidade or Sight Rule. **(8 marks)**
(b) Explain the Plain Table operation. **(7 marks)**