

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) Explain the major terms used in leveling. **(10 marks)**
(b) Explain the suitability and unsuitability of chain survey. **(5 marks)**
(c) Explain the Booking process in Chain survey. **(10 marks)**

- (2) (a) Describe the Chain used in chain survey. **(5 marks)**
(b) Explain the five types of Tapes used in chain survey. **(10marks)**

- (3) (a) Explain the process of reconnaissance survey, ranging and running a chain line in chain survey. **(10 marks)**
(b) Explain Plane Surveying. **(5 marks)**

- (4) (a) What is the meaning of Surveying? **(3 marks)**
(b) Explain the objective of Surveying. **(12 marks)**

- (5) (a) Classify Surveying based on the surface and area surveyed. **(9 marks)**
(b) What is the meaning of compass survey? **(6Marks)**