



UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA

SECOND SEMESTER EXAMINATIONS, MAY 2018

COURSE NO: GM 374
COURSE NAME: INSTRUMENTATION CONTROL
CLASS: GM III **TIME:** 3 HOURS

Name: _____ Index Number: _____

ANSWER ALL QUESTIONS (60 MARKS)

Q1

- a) Elaborate under the following headlines on Practice of Land Surveying Profession in Ghana.
- i. Practice Guidelines
 - ii. Procedures
 - iii. Field work:
 - iv. Office Work
 - v. Equipment
 - vi. Measurement Standards
 - vii. Field Notes
 - viii. Deliverables
- b) State and explain the four types of station marks as provided in the technical guidelines for spatial data capture and presentation in Ghana? **(20 Marks)**

Q2

- a) State the rules for demarcation of Town Layout
b) Write on boundary types and pillaring specifications
c) State the rules for the survey of boundaries
d) Standards of Accuracy for Surveys
- i. Horizontal Accuracy Standards
 - ii. Vertical Accuracy Standards
- (15 Marks)**

Q3

- a) List the methods of Space Resection (SR) surveys.
b) What are the general guidelines in SR surveys?
c) List the minimum Technical Guidelines which must be observed in SR Surveys.
d) How is SR Data Quality Assessed?
- (10 Marks)**

Q4

- a) Define Control Surveys
 - b) Control Networks provide a Reference Framework of Points for: List Five
 - c) State the Methods used for Control Surveys
 - d) List the Standard and Specification in Control Surveys
 - e) List Five Applications area of Control Surveys
- (15 Marks)**

Examiner: Dr Issaka Yakubu/ P. E. BAFFOE