



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

FOURTH YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF EDUCATION (ARTS)

BACHELOR OF ARTS

AGE 402: SURVEYING

DATE:

TIME:

INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS

1. a) Define the following types surveys (10 marks)
 - i. Topographic survey
 - ii. Hydrographic surveys
 - iii. Route survey
 - iv. property surveys
 - v. Aerial survey
- b) Distinguish between plane and geodetic surveying (4 marks)
- c) Differentiate between accuracy and precision in survey measurements (4 marks)
- d) Describe any two mistakes that are committed during rod reading (4 marks)
- e) Explain how random errors occur in surveying (8 marks)
2. a) Illustrate various methods of field management (8 marks)
- b) Describe common mistakes in survey measurements (12 marks)
3. a) Describe the operations of an Abney level in the measurements of slope angles (12 marks)
- b) Explain how to calculate differences in elevation between points (8 marks)
4. a) Discuss main uses of the prismatic compass (10 marks)
- b) Explain common mistakes in taping (10 marks)
5. Explain main mistakes encountered in linear measurements (20 marks)