



UNIVERSITY OF EMBU

2017/2018 ACADEMIC YEAR

TRIMESTER EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF
EDUCATION (ARTS)

SCHOOL BASED

GEG 204: ELEMENTS OF SURVEYING AND CARTOGRAPHY

DATE: AUGUST 9, 2018

TIME: 11:00 AM – 1:00 PM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE (30 MARKS)

- a) Describe three categories of survey. (3 marks)
- b) Describe the concept of accuracy and precision in survey. (4 marks)
- c) Explain three types of references. (3 marks)
- d) Explain five methods of linear measurement. (5 marks)
- e) Explain common mistakes in linear measurement. (5 marks)
- f) Explain the use of theodolite in survey. (5 marks)
- g) Describe surveyor's chain as an instrument of measurements. (5 marks)

QUESTION TWO (20 MARKS)

- a) Describe how prismatic compass is used (10 marks)

b) Describe the use of plane table in survey. (10 marks)

QUESTION THREE (20 MARKS)

a) Discuss any five methods of representing relief on a map (10 marks)

b) Discuss factors that determine map design. (10 marks)

QUESTION FOUR (20 MARKS)

a) Discuss major map specifications (14 marks)

b) Discuss three types of scales used in map compilation. (6 marks)

QUESTION FIVE (20 MARKS)

a) Explain the concept of graticule in cartography. (5 marks)

b) Discuss the historical development of cartography. (15 marks)

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