



UNIVERSITY OF EMBU

2017/2018 ACADEMIC YEAR

SECOND SEMESTER EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF
EDUCATION

GEG: 204 ELEMENTS OF SURVEYING AND CARTOGRAPHY

DATE: APRIL 3, 2018

TIME: 2:00-4:00PM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE (30 MARKS)

- a) Describe three types of scale used in map compilation (3 marks)
- b) Explain the concept of map projection. (5 marks)
- c) Describe the concept of accuracy and precision in survey. (4 marks)
- d) Discuss common mistakes in linear measurements. (5 marks)
- e) Discuss major map specifications (5 marks)
- f) Distinguish between azimuths and bearings. (5 marks)
- g) Describe three classes of survey (3 marks)

QUESTION TWO (20 MARKS)

- a) Describe surveyor's chain as an instrument of measurements. (10 marks)
- b) Explain how a plane table and alidade are used in survey. (10 marks)

QUESTION THREE (20 MARKS)

- a) Describe various methods used in linear measurements (10 marks)
- b) Discuss factors that determine map design. (10 marks)

QUESTION FOUR (20 MARKS)

- a) Describe how prismatic compass is used. (10 marks)
- b) Explain various methods of depicting relief on a map. (10 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss the concept of graticule in cartography (5 marks)
- b) Discuss the historical development of cartography. (15 marks)

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