



# **MACHAKOS UNIVERSITY**

**University Examinations for 2018/2019 Academic Year**

**SCHOOL OF HUMANITIES AND SOCIAL SCIENCES**

**DEPARTMENT OF SOCIAL SCIENCES**

**FIRST YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR**

**BACHELOR OF EDUCATION (ARTS)**

**BACHELOR OF ARTS**

**AGE 100: INTRODUCTION TO CARTOGRAPHY AND MAP ANALYSIS**

**DATE: 24/7/2019**

**TIME: 2.00-4.00 PM**

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**INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS**

1. a) Define the following terms (10 marks)
  - i. Spot height
  - ii. Scale
  - iii. Cartography
  - iv. A map
  - v. A legend
- b) Differentiate between a contour and a form line (4 marks)
- c) Briefly explain the following techniques as they are used in cartography
  - i. Hill shading (4 marks)
  - ii. Hachures (4 marks)
  - iii. Bench marks (4 marks)
  - iv. Bathymetric relief (4 marks)
2. a) Explain main qualities of a good layering in depicting features on maps (10 marks)
- b) Explain factors that govern a map design (10 marks)
3. a) Explain any five methods that are used to show relief on a map (10 marks)
- b) Using contour lines and values draw the following features as depicted on maps

- i. River valley (2 marks)
  - ii. Hill (2 marks)
  - iii. Mountain range (2 marks)
  - iv. Index contour (2 marks)
  - v. An escarpment (2 marks)
4. a) Explain any five uses of maps in the geographical field today (10 marks)
- b) Explain importance of the following marginal information as used on maps
- i. Title (2 marks)
  - ii. Date (2 marks)
  - iii. Nationality (2 marks)
  - iv. Scale (2 marks)
  - v. Compass direction (2 marks)
5. a) Explain types of measurements that are necessary in describing a drainage basin (10 marks)
- b) Describing main features of cartography during the early phase in the history of mapmaking (10 marks)