MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS
2022 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER

SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT
BACHELOR OF ARTS URBAN PLANNING

COURSE CODE: URP 3103
COURSE TITLE: CARTOGRAPHIC TECHNIQUES

DATE: 7TH APRIL 2022   TIME: 0830-1030 HRS

INSTRUCTIONS TO CANDIDATES

*ATTEMPT **ALL** QUESTIONS IN SECTION A, AND ANY **TWO** IN SECTION B*

SECTION A: COMPULSURY (30 MARKS)

1.

a) Explain two ways a map user can identify the direction of flow of a river on a topographical map.   **(4mks)**

b) Using an illustration, explain how the following would appear on a map

   i) Escarpment.   **(2mk)**

   ii) convex hill.   **(2mks)**

c) The scale of a map is 1: 50,000 and the map distance from point A to B is 4 cm. The contour units are given as follows, 600 and 1600. Calculate the gradient of the land**.**   **(5mks)**

d) i) Define the term computer assisted cartography   **(2mks)**

     ii) list five the major advantages of Computer Cartography over Conventional Cartography?   **(5mks)**

e) Discuss the indicators that you would use to identify the rock structure and the rock type of mapped area   **(10mks)**

SECTION B: CHOOSE ANY TWO (40mks)
2.i) Discuss the steps that can be taken to minimize the effects of generalization and error in digital data obtained from maps   **(12mks)**
  ii)   Examine   the   sources   of   data   for cartography   (**8mks)**
3.i) Using diagrams where applicable, discuss the various classifications of map projections.   **(12mks**)
ii) The scale of a map is 1: 50,000 and the map distance from point A to B is 4 cm. The contour units are given as follows, 600 and 1600. Calculate the gradient of the land   **(4mks**)
iii) State four uses of maps   **(4mks)**
4. Discuss the basic principles of map design   **(20 mks)**

5. Discuss the basic moral codes of conduct that should be observed by cartographers when producing maps   **(20 mks)**
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