

CHUKA



UNIVERSITY

COLLEGE

UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF
MASTR OF ARTS (GEOGRAPHY)&
MASTER OF SCIENCE (ENVIRONMENTAL SCIENCE)**

GEOG 702: GEOGRAPHIC INFORMATION SYSTEM

**STREAMS: M.A (GEOGRAPHY) L1BII&
M.Sc. (ENV. SCIENCE) L1B1**

TIME: 3 HOURS

DAY/DATE: TUESDAY 11/12/2012

8.30 A.M – 11.30 A.M.

INSTRUCTIONS:

Answer question ONE and any other TWO questions. Diagrams can be used whenever they are relevant to illustrate an answer.

1. (a) Describe the components of a Geographic Information System (GIS). [10 marks]
 - (b) Explain any five limitations that face GIS utilization in developing countries. [10 marks]
 - (c) Analyse any five areas where GIS has been applied in Kenya. [10 marks]

 2. Analyse any five fundamental requirements of an effective design for a data management system. [15 marks]

 3. Discuss the merits and demerits of vector data structures. [15 marks]

 4. Attempt the classification of database systems. [15 marks]

 5. Compare and contrast between satellite imagery and aerial photography. [15 marks]
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