

THARAKA



UNIVERSITY

COLLEGE

(A Constituent College of Chuka University)

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF
MASTERS OF ARTS IN GEOGRAPHY**

GEOG 832: GIS AND REMOTE SENSING

STREAMS: MA (GEOG) P/T

TIME: 2 HOURS

DAY/DATE: TUESDAY 14/04/2020

2.30 PM – 5.30 PM

INSTRUCTIONS:

- **Answer any Three Questions**
- **Use sketch maps and diagrams whenever they serve to illustrate an answer**
- **Do not write on the question paper**

Question One

- (a) Explain what Geographic Information system is and state any three of its users. [6 marks]
- (b) What do GPS mean and how it is used. [4 marks]
- (c) You have been given as GIS project to update the topographical map of a town. State what you will require and describe the process you will follow. [10 marks]

Question Two

- (a) Explain what you understand by the term EMS in remote sensing. [2 marks]
- (b) State the five components of remote sensing. [10 marks]
- (c) Discuss four analytical techniques of remote sensing that can be used in a GIS project. [8 marks]

Question Three

Explain the common implementation pitfall issues that can led to failure to GIS take off in an organization. [10 marks]

Question Four

- (a) Discuss five implementation phases of geographical information system in an organization. [10 marks]
- (b) State the factors that affect the integrity and quality of spatial data in GIS. [10 marks]

Question Five

- (a) Show the five sources of data for geographic information system (GIS). [10 marks]
 - (b) Explain any five methods of data input for geographical information systems (GIS) [10 marks]
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