



(University of Choice)

**MASINDEMULIROUNIVERSITY OF
SCIENCE AND TECHNOLOGY**

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DEGREE

OF

BACHELOR OF SCIENCE IN GEOSPATIAL INFORMATION SCIENCE

COURSE CODE: DPG 202

COURSE TITLE: GIS I

DATE: 26/7/2022

TIME: 11-1PM

INSTRUCTIONS TO CANDIDATES

TIME: 2 HOURS

Answer Question 1(ONE) and any other TWO Questions

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

Question ONE

- a) Geographic Information System (GIS) is regarded as the best information system. Discuss. *[5 Marks]*
- b) Describe functional components of Geographic Information System (GIS). *[10 Marks]*
- c) Data as a component of Geographic Information System (GIS) is the most expensive. Discuss. *[7 Marks]*
- d) Describe Geographic Information System (GIS) data models. *[8 Marks]*

Question TWO

- a) Discuss the advantages of vector data models as compared raster models. *[10 Marks]*
- b) What are the costs and benefits of using primary data instead of secondary data? *[8 Marks]*
- c) Identify two sources for geographic data (boundary files) for Kenya. *[2 Marks]*

Question THREE

Discuss any four methods of data input in a GIS. *[20 Marks]*

Question FOUR

List and discuss resolutions in remote sensing. *[20 Marks]*