

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2023/2024 ACADEMIC YEAR THIRD YEAR SECOND SEMESTER

SCHOOL OF NATURAL RESOURCE, ENVIRONMENTAL STUDIES AND AGRICULTURE

BACHELOR OF URBAN AND REGIONAL PLANNING

COURSE CODE: COURSE TITLE: URP 3233-1 GIS APPLICATIONS

DATE: 4th JUNE , 2024

TIME: 830-1030 HOURS

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and any other THREE in section B. This paper consists of 2 printed pages. Please turn over

SECTION A – 20 MARKS

- Q1.Define geodatabases and explain its importance in
regional planning.urban and
(5 marks)
- Q2. Explain the process of data capture in GIS, including digitizing, editing and scanning (5 marks)
- Q3. Discuss the role of GIS in decision-making processes related to urban and regional planning. (5 marks)
- Q4. Describe the process of setting up a GIS system and the factors to consider. (5 marks)

SECTION B – 30 MARKS

- Q5. Discuss the historical development of GIS and its evolution as a powerful tool in urban and regional planning. Provide examples of how GIS has been instrumental in addressing various planning challenges. (10 marks)
- Q6. Describe the process of database creation and management in GIS. (10 marks)
- Q7. Analyze the differences between various GIS software packages available in the market. Evaluate their strengths and weaknesses in terms of data handling, analysis capabilities, and user-friendliness for urban and regional planning applications.

(10 marks)

Q8. Discuss how the Integration of GIS with GPS and remote sensing improve data collection, analysis and decision-making in urban planning. (10 marks)

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