

UGANDA MARTYRS UNIVERSITY

NKOZI

UNIVERSITY EXAMINATIONS

END OF SEMESTER TWO FINAL ASESSMENT 2021/2022

Bachelors of Science in Economics & Natural Resource Management

G.I.S AND REMOTE SENSING

DATE: Thursday 21 July 2022

TIME: 09:30AM – 12:30PM

Instructions:

1. Attempt any **FOUR (04)** questions
 2. All questions carry equal marks
 3. Do not write anything on the questions paper.
 4. Carefully read through **ALL** the questions before attempting.
 5. No **names** should be written anywhere on the examination booklet.
 6. Ensure your work is **clear** and **readable**. Untidy work shall be penalized.
 7. Any type of examination Malpractice will lead to automatic disqualification.
 8. Ensure that your **ID number** is indicated on all pages of the examination answer booklet.
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Question ONE

- a) Distinguish between passive remote sensing and active remote sensing. (10 marks)
- b) Examine the feature of an electro-magnetic spectrum as applied in remote sensing (15 marks)

Question TWO

- a) Discuss the various types of energy used for remote sensing to take place. (12 marks)
- b) Assess the contribution of remote sensing in modern geographical studies (13 marks)

Question THREE

Write short notes about the following

- a) G.I.S b) Vector data modal c) Raster data model
- d) Remote sensing e) ILWIS (5 marks) each

Question FOUR

Discuss the components of Geographical data used in geographical information systems (25 marks)

Question FIVE

Assess the application and use of GIS software in Uganda (25 marks)

Question SIX

Using **ArcMap 10.5** software, add data **UG_ADMIN** layer and clip out **KIBOGA** district. Add that layer to the lay out view. Follow all other steps and produce a map consisting of all sub-counties of that district. Export the well labelled map with all its qualities in JPEG and save it to the desktop in your name (25 marks)

Question SEVEN

Using **ArcMap 10.5**, add **aiddata.gb2** and add the **UG_district** boundaries 2008 layer. Select **KIRYANDONGO** district in Fire red colour and export the well labelled map with all its qualities in JPEG and save it to the desktop in your name. (25marks)

END