

Instructions to candidates

Duration: Two (02) hours

Number of questions: Part- A Five (05) Structured Essay Questions  
Part -B Two (02) Essay Questions

Answer all questions

Mark allocation: 100



Part-B

1. For each of the following scenarios, choose which GIS data model would be the best one to use. Indicate your choice with R = Raster, V = Vector, and RV = either one

- a. \_\_\_\_\_ You require accurate measurement of lengths, distances, and areas.
- b. \_\_\_\_\_ You are making an aesthetically pleasing road map for the Town of Ella that will be distributed by the local Provincial council.
- c. \_\_\_\_\_ You need to identify all areas below the elevation of 25 m to know what is at risk from hurricane storm surge.
- d. \_\_\_\_\_ You need to identify calcite deposit that are adjacent to forested areas.
- e. \_\_\_\_\_ You are required to create a slope map of the University land

(25 mark)

2.
  - a. Compare between Raster and Vector Model for representing geographic features.
  - b. Discuss abstraction of geographical entities with relevant examples?
  - c. Define and differentiate between panchromatic, multispectral and hyperspectral sensors.

(25 mark)