

Faculty of Science
3rd year 2nd semester 2019
MRT 365-3 Remote Sensing and Geospatial Technology
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 the hydrology map for the Kandy city
- c. _____ You need to identify all areas below the elevation of 25 m to know what is at risk from inundation of a river.
- d. _____ You need to identify calcite deposit that are adjacent to forested areas.
- e. _____ You are required to create a contour map of a mining site

(10 mark)

- 2. a. Briefly describe methods of energy transfer from the Sun to the Earth.
- b. Explain importance of map projection.

(15 mark)

3. Write short notes on the followings

- a. Aerial Photographs
- b. Georeferencing
- c. Atmospheric windows
- d. Panchromatic image

(10mark)

4. Explain the application of spatial data in mineral exploration

(15 mark)

