

RAJARATA UNIVERSITY OF SRI LANKA FACULTY OF APPLIED SCIENCES

B.Sc. (Four year) Degree in Applied Sciences
Fourth Year – Semester I Examination – September/October 2019

COM 4203 - GEOGRAPHIC INFORMATION SYSTEMS

Time: Two (02) hours

This paper consists of two parts, Part A (Theory) and Part B (Practical). Answer ALL questions

Part A

(20 marks)
GIS
(20 marks)
(30 marks)
(30 marks)
(25 marks)
(25 marks)
(25 marks)
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Part B

Read the given instructions carefully and compile the map for the Galgamuwa topographical sheet (Figure 01), as per file names given. All the shape files are in C:\Exam\directory and all your work has to be saved in the computer itself C:\Exam\your Index number\.....shp.

- 1. a). The Horowpothana.sid topographical sheet and Fig 1.JPEG file are provided in the C:\Exam folder. Select and add Horowpothana.sid and locate the Maha Wawe.
 - b). Geo-reference Fig 01.JPEG and digitize the Maha Wawe and export the shape file to C:Exam as *Maha Wawe.shp*. Use your name and index number for data bases that has to be prepared.
 - c). In the same map locate the B type road and Canals close to the lake. Digitize road type and the canal and show it in your output figure.
 - d). Using a point file, name the village; Surunewa and the lake Maha wewa.
 - e). Save your project using your name and index number. Your final output should be saved as a tiff file in the C:\Exam folder as *Maha wewa.tiff* using a resolution of 300dpi. (Note: *name* is the name you use to save the layer Eg. Paddy.shp)

(100 marks)

^{*}Do not forget to save your work from time to time.

^{*}Note that the underlined italic names are the files you will have to create.

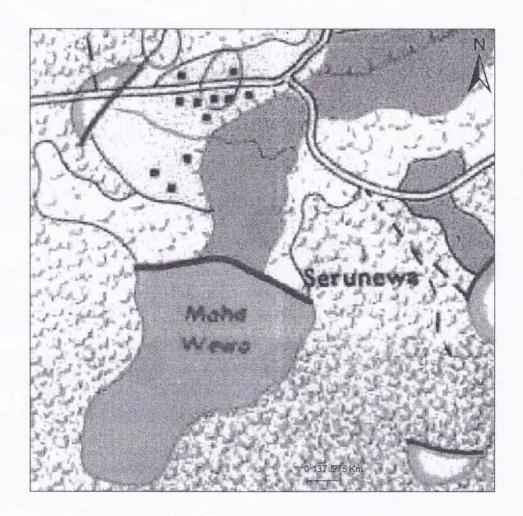


Figure. 01

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