

UNIVERSITY OF RUHUNA
2018/2019 Academic Year
B. A. (Special) Degree - 2000 Level
2nd Semester Examination – 2020 March- August

GEO 22623 – Geographical information Systems

Answer any five (05) questions.

Time: 03 Hours

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1. Explain four (04) reasons why GIS is popular as a Multi-Disciplinary Subject.
(3 x 4 = 12 Marks)
2. "What are the important steps when GIS project is developed." Describe with suitable examples
(12 Marks)
3. Briefly explain above below sections available under the QGIS or ArcGIS.
- i. Arc Map
 - ii. Processing Toolbox
 - iii. Toggle Editing
 - iv. Arc Toolbox
 - v. ESRI
 - vi. Madeira
- (2 x 6 = 12 Marks)
- 4.
- i. Name the list of GIS techniques that you already known.
(0.5 x 12 = 06 Marks)
 - ii. Using suitable diagrams, describe three (03) Geoprocessing techniques among the GIS techniques.
(2 x 3 = 06 Marks)
5. Explain relationship about below mentioned GIS matters.
- i. Geo-Spatial Database
 - ii. Rows and Columns
(6 x 2 = 12 Marks)

6. Briefly explain below mentioned sub titles.

- i. Pixel
- ii. Plugins
- iii. TIN / DEM
- iv. GCP
- v. .shp
- vi. dbase

(2 x 6 = 12 Marks)

7.

- i. What is Database Management System? Explain briefly. (02 Marks)
- ii. What are the components included in a Database Management System? (02 Marks)
- iii. Explain Vector and Raster data using appropriate examples. (04 Marks)
- iv. Discuss the advantages and disadvantages of a Database Management System. (04 Marks)

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