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RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES

B.Sc. (Four-Year) Degree in Information and Communication Technology
Fourth Year – Semester I Examination – October/ November 2017

ICT 4208 – GEOGRAPHIC INFORMATION SYSTEMS

Time: Two (02) hours

Answer **four (04)** questions only.

1. a) Explain the importance of GIS in the field of your specialized subject area. (50 marks)
b) List **three (03)** areas of GIS applications and explain their importance in disaster mitigation. (50 marks)
2. a) Explain the difference between attribute and spatial Data in GIS, using appropriate examples. (50 marks)
b) Describe the difference between **raster** and **vector** data in GIS. (50 marks)
3. a) An aerial photograph is taken from a height of 3000 m. by a camera of focal length 50 mm. Calculate the scale, assuming that the area photographed is at sea level. (50 marks)
b) Estimate the area of land covered by a standard size (23 cm X 23 cm) aerial photograph, using the above scale. (50 marks)
4. "Maps are ways of communication". Justify this statement giving suitable examples. (100 marks)
5. Explain any **four (04)** functions of Geoprocessing tools in GIS. (100 marks)

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