



**RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES**

**B.Sc. (Honours) in Information Technology
Fourth Year – Semester I Examination – January/ February 2021**

ICT 4208 – GEOGRAPHIC INFORMATION SYSTEMS

Time: One (01) hour

Answer ALL questions.

1. a) Define the term “map” as for the International Cartographic Association. **(10 marks)**
b) What are the requirements in production of a map, in consideration of cartographic abstraction? **(30 marks)**
c) Explain briefly the two types of maps. **(30 marks)**
d) What are the important distinctions between a line map and a photo map connected to GIS? **(30 marks)**

2. a) Describe the two types of distortion in geometric correction of imagery. **(25 marks)**
b) Discuss the properties of map projections. **(25 marks)**
c) Give a brief explanation on the types of coordinates. **(25 marks)**
d) Elaborate the terms spheroid and datum. **(25 marks)**

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