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

B.Sc. (Special) Degree in Applied Science
Fourth Year – Semester II Examination – April/May 2016

**BIO 4311- Advanced Geographic Information Systems
(Theory)**

Answer **all (3)** questions

Time: One and a Half hours

1. (a) Discuss in detail of the “Accuracy and Precision” for Geo-Spatial Databases separately [70 marks]
(b) What is meant by Attribute Accuracy? [15 marks]
(c) How can Attribute Accuracy be tested? [15 marks]
2. (a) What is a Digital Elevation Model? Explain in detail [70 marks]
(b) Elucidate the main components in computer science for GIS [15 marks]
(c) List out the major areas of practical application based on natural resources and land parcel [15 marks]
3. (a) Discuss the different kinds of platforms used in Remote Sensing [30 marks]
(b) Describe the “Atmospheric effects of electromagnetic radiation” in remote sensing [40 marks]
(c) Explain the relationship between Ground features and Electro Magnetic Radiation [30 marks]

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