

**Uva Wellassa University of Sri Lanka**  
**Faculty of Science and Technology**  
**Department of Computer Science and Technology**  
**400 level 1<sup>st</sup> semester Examination –Jul./Aug. 2016**  
**CST471-2 Remote Sensing and Image Interpretation**



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**Instructions to candidates**

Duration: Two (02) hours

Number of questions: Four (04) essay questions

Answer all questions

Mark allocation: 100

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1.
  - a. What is active remote sensing?
  - b. List any two (2) satellite sensors whose spatial resolution is less than 300 cm.
  - c. With a flow diagram, explain the components of remote sensing.
  - d. Distinguish between multispectral remote sensing and hyperspectral remote sensing.  
(30 mark)
2.
  - a. Discuss the causes of haze in satellite imageries.
  - b. Explain the principle of geosynchronous and sun synchronous satellites with examples.  
(20 mark)
3. Write short notes on the following.
  - a. Supervised Classification
  - b. NDVI
  - c. Colour composit
  - d. Radiometric resolution  
(25 mark)
4.
  - a. Explain how Electro Magnetic Radiation interacts with atmospheric constituents.
  - b. State the effects of Raleigh scattering on satellite imagery.  
(25 mark)

