

Uva Wellassa University
Faculty of Animal Science & Export Agriculture
BSc in Export Agriculture



End Semester Examination – February/March 2011
Year IV Semester I

EAG 443-2: Applications of GIS and Remote Sensing

Instructions

Answer **four (04)** questions

No. of questions : Five (05)

No. of pages : One (01)

Time allocated : Two hours (2 hrs)

Total marks allocated : 100

1. (i) Distinguish between global (geographic) coordinates and planar coordinates.
(ii) Describe the features of a topographic map.
(iii) Calculate the ground distance between points A and B which are 5.0 cm apart on a topographic map having the scale of 1 : 25,000.
(iv) What is the distance between points A and B in above (iii) on a map plotted at the scale of 1 : 10,000?
2. With labeled sketch diagrams, explain how you would enhance the quality and interpretability of remote sensing images used in earth observation.
3. Write illustrated notes on the followings.
 - (i) Raster and vector data models
 - (ii) Components of GIS
 - (iii) Functions of GIS
4. Suppose that you are requested by the local Municipality to select suitable locations to establish a waste disposal site in a city periphery using GIS. Describe the spatial data types you need for this analysis and explain how you would perform the task using analyst-specified scores for each parameter.
5. "Index Overlay Method provides more options in suitability assessments done in GIS compared to Boolean Logic Model". With the aid of a simple example, justify this statement.

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