EASTERN UNIVERSITY, SRI LANKA

THIRD YEAR FIRST SEMESTER EXAMINATION IN AGRICULTURE – 2006/2007

(JUNE/JULY – 2014)

AEN 3103- APPLICATION OF GEO-INFORMATICS IN AGRICULTURE

EXTERNAL DEGREE

(Repeat Exam)

Answer **all** questions

Time allowed: One hour

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1 a. Create a Sri Lanka Map in Arc GIS 9.2 (in Layout view, A4 size) fulfilling the following requirements: (save the file as Roads of Sri Lanka .mxd and export it into .jpg)

   i.   Include District and Roads

   ii. Assign colours: Green for District, Black for Roads

   iii. Set North Arrow, Scale Bar, Title, Neat line and Legend

   iv. Label the Districts

   (50 marks)

   b. Create a Sri Lanka Map in Arc GIS 9.2 (in Layout view, A4 size) fulfilling the following requirements: (save the file as Major towns of Sri Lanka .mxd and export it into .jpg)

   i.   Include DS divisions (DSD) and Major towns

   ii. Assign colours: Orange for DSD, Green for Major towns

   iii. Set North Arrow, Scale Bar, Title, Neat line and Legend

   iv. Label the Major Towns

   (50 marks)

2. a. Create a population map for 2010 by using Graduated colours and symbols in one layout and export it in .jpg with proper mapping features.

   (25 marks)

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b. Create a population map including the graph comparing the years of 1981 and 2001 of Batticaloa, Trincomalee and Ampara Districts (save the file as population. mxd and export it into .jpg)

(25 marks)

c. Write short notes on the following:

  i.   Applications of GIS in Agriculture

  ii. Components of GIS

(50 marks)