UNIVERSITY OF COLOMBO – SRI LANKA FACULTY OF ARTS

SPECIAL DEGREE EXAMINATION IN ARTS (GEOGRAPHY) – PART III SECOND SEMESTER FINAL EXAMINATION – 2017/2018

GYG 4289 - AIR PHOTO INTERPRETATION (PART II)

Three Hours (03)

Answer any two (02) questions only, selecting one from each part. Aerial photographs, kodatrace papers and a mirror stereoscope will be provided.

PART I - Aerial Photo Interpretation on Land Cover

01. Three aerial photographs of Sri Lanka have been provided.

Photograph no.

: 95, 96 and 97

Scale

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Year

: 1992

Answer the following questions using the photograph no. 96

- a. Mark the followings on a kodatrace paper using the colour given in parenthesis.
 - i. Kodigala and Una Kanda Peak (Brown)
 - ii. West boundary of the reserve (Black)
 - iii. TWO areas covered with Mana and Illuk grasses (Yellow)
 - iv. Woodland with isolated trees (Yellow fill with black dots)
 - v. TWO areas covered with low bushes (Light brown)
 - vi. TWO areas covered with Rock forest (Light brown with black dots)
 - vii. TWO areas covered with Cloud forest (Dark brown)
 - viii. Dry mixed evergreen forest with large crowns (Light green)
 - ix. Dry mixed evergreen forest without large crowns (Light green with cross marks)
 - x. Southern route of wild elephants connecting Wasgamuwa Minneriya Girithale Habarana Yan Oya and Ritigala (Arrows in red)

(12 Marks)

b.

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i. Name FIVE plant species found in Rock forests or Cloud forests of the area.

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ii. Explain the ecological adaptations of Rock forest of the area with examples.

(06 Marks)

i. Examine the limits of using the "Zonnaweld's Reflection Graph" to study the photo characteristics of large scale aerial photographs.

(10 Marks)

ii. Briefly explain the criteria provided by the "World Land Use Commission" to amend the sub-units of 1988 Land Cover legend.

SECTION SEMESTER WHAL EXAMINATION - 2017/2018

(10 Marks)

PART II – Aerial Photo Interpretation on Land Use

03. Three aerial photographs of Sri Lanka have been provided.

Photograph no.

: 30, 31 and 32

Scale

: 1:20,000

Year

: 1991

Using the photograph no. 31, answer the following questions.

- a. Mark the followings on a kodatrace paper using appropriate symbols and colours. Prepare a suitable legend for the map.
 - i. Main irrigation canal and Hydrometric station.
 - ii. Eroded River Valley and Braided River.
 - iii. Boundary of Badulla District.
 - iv. Two abandoned tanks.
 - v. A cluster settlement.
 - vi. Waylie Oya and its tributaries.
 - vii. Jungle with tall trees.
 - viii. Main road pattern.
 - ix. Two highlands with illuk grass.
 - x. Paddy cultivated area between Waylie Oya and Walawe River.

(12 Marks)

b.

i. Briefly explain the main characteristics of threshing floors of the area.

(02 Marks)

ii. How has the water resources affected the uneven spatial pattern of settlements in the eastern part of the area? Explain with examples.

(06 Marks)

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i. Briefly explain the methodology that you could apply for the preparation of sub-components of Land Use legend.

(10 Marks)

ii. What criteria are applied to differentiate the Land Use legend from Land Cover legend? Explain briefly.

(10 Marks)