

# UNIVERSITY OF COLOMBO – SRI LANKA

## FACULTY OF ARTS

### SPECIAL DEGREE EXAMINATION IN ARTS (GEOGRAPHY) – PART III

#### FIRST SEMESTER END EXAMINATION – 2019

#### GYG 4173 – AIR PHOTO INTERPRETATION

Time : 03 Hours

Answer **two (02)** questions only selecting **one** from each part.

**Two** drawing papers, **two** tracing papers, aerial photographs and a mirror stereoscope will be provided.

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### PART I

- 1) Three aerial photographs of the hill country in Sri Lanka are provided.

Photograph No : 104, 105 and 106

Scale : 1:20,000

Year : 1992

Answer the following questions using the Photo No 105,

- i Construct a Geomorphological map for the area using the photo No. 105 and prepare a suitable legend for the map using relevant symbols.

(12 Marks)

- ii Examine the relationship between hydrological conditions and the Geomorphological structures of the area.

(08 Marks)

Photograph No : 60, 61 and 62

Scale : 1:20,000

Year : 1992

Using the Photo No 61 answer the following questions.

Mark the following on a Tracing paper using appropriate symbols and colours.

- i. Major reservoir and a small tank.
- ii. Railway road with the railway station.
- iii. Urban area
- iv. Two play grounds
- v. Two Paddy lands associated with each narrow and broad vallies.
- vi. Two coconut lands
- vii. Two homesteads
- viii. Two rural settlements
- ix. Two forest areas
- x. Two lands with rock outcrops. (20 Marks)

### **PART II**

- 3)
  - i Explain briefly the approaches that could be used to interpret Terrain analysis and classification using air photographs. (10 Marks)
  - ii Examine to what extent these approaches contribute to interpret Hydrological conditions of the area. (10 Marks)
- 4)
  - i What are the main "life forms" that could be used to identify the plant community when mapping the land cover of an area. (04 Marks)
  - ii Briefly explain the main photo characteristics that could be used to identify those life forms (06 Marks)
  - iii State the main categories of land use type in Sri Lanka and discuss the issues that may be encountered when applying these categories with the components of land use and land cover legend introduced by the International Geographical Union in 1952. (10 Marks)

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