

UNIVERSITY OF COLOMBO – SRI LANKA

SPECIAL DEGREE EXAMINATIONS IN ARTS (GEOGRAPHY) – PART III

FIRST SEMESTER FINAL EXAMINATION – 2021/2022

GYG 4173 – Aerial Photo Interpretation

Time: Three Hours (03)

Answer **three (03)** questions selecting at least one question from part I and part II. You have been given two (02) Kodatrace papers, two (02) Drawing papers, relevant Aerial Photographs, and a Mirror Stereoscope.

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Part I

1. i. Distinguish using appropriate examples, the “Parametric analytical approach” from the “Genetic analytical approach” in the black and white aerial photo interpretation process. (10 marks)
- ii. “The Exogenic land formation process is more important than the Endogenic land formation process for black and white aerial photo interpretation”. Do you agree with this statement? Support your answer with appropriate examples. (10 marks)
2. i. Evaluate the importance of the Electro Magnetic Spectrum in the black and white aerial photo interpretation process using suitable diagrams. (10 marks)
- ii. “The distortions in black and white aerial photos are very closely associated with the Electro Magnetic Spectrum”. Do you agree with this statement? Support your answer with appropriate examples. (10 marks)
3. i. Discuss with appropriate examples, how you have identified the sub-components of the land use legend that you have used for black and white aerial photo interpretation. (10 marks)
- ii. Examine with suitable examples, the shortcomings of land use and land cover legends that you have studied. (10 marks)

Part II

4.a. You have been provided three aerial photos belonging to the dry zone of Sri Lanka.

Aerial photo no. : 05, 06, 07

Scale : 1: 20,000

Year : 1993

Mark the following features on a Kodatrace paper based on the Aerial Photo no 06. Prepare a suitable legend for your map (use appropriate colors and symbols).

i. Catchment areas

ii. Main river course and tributaries

iii. Main reservoir and dam

iv. Irrigation channels

v. Irrigated Paddy fields (15 Marks)

(b). Explain your opinion about the locations of paddy fields in the area (5 Marks)

5.(a). You have been provided with three aerial photos belonging to a coastal zone of Sri Lanka.

Aerial photo no. : 63, 64, 65

Scale : 1: 20,000

Year : 1992

Mark all the fluvial and coastal features on a Kodatrace paper based on the Aerial Photo no 64. Prepare a suitable legend for your map (use appropriate colors and symbols). (15 Marks)

(b). Briefly explain the coastal process of the area given to you (5 Marks)
