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பேராதனைப் பல்கலைக் கழகம்  
UNIVERSITY OF PERADENIYA

දුරස්ථ හා අඛණ්ඩ අධ්‍යාපන කේන්ද්‍රය  
தொடர் தொலைக் கல்வி நிலையம்  
CENTRE FOR DISTANCE AND CONTINUING EDUCATION

ශාස්ත්‍රවේදී සාමාන්‍ය උපාධි පරීක්ෂණය (බාහිර-පැරණි නිර්දේශය)2019  
முதற்கலைத்தேர்வு பரீட்சை (வெளிவாரி) -2019  
GENERAL DEGREE EXAMINATION IN ARTS (EXTERNAL- OLD SYLLABUS) 2019

Geography 111/ Practical Geography- GG 111

Answer four (04) questions selecting at least one (01) question from each part. The total number of questions in this paper is 07.

The Horowupotana topographical map, an aerial photograph, outline map of Indo-Sri Lanka region, district map of Sri Lanka, drawing papers, graph papers and tracing papers are provided. Use of calculators is allowed except cellular phone calculators.

**Time: Four (04) Hours**

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**Part One - Topographical Maps**

- (1) i. Draw a map in the scale of 1:190,080 to show the distribution pattern of abandoned tanks in the **Eastern half** of the topographical map (1:63,360) provided. (15 Marks)
- ii. Calculate the density of abandoned tanks located in the **South-East quadrant** of the map and comment on your results. (10 Marks)
- (2) i. Draw a map in the scale of 1:126, 720 to show the road network and settlements located in the **North-Western quadrant** of the topographical map (1:63,360) provided. (15 Marks)
- ii. Calculate the total length of the Puttalam -Trincomale main road in miles. (05 Marks)
- iii. Discuss the relationship between road network and settlement patterns in the above drawn map. (05 Marks)

### Part Two - Aerial Photographs

- (3) i. Draw an overlay to show the paddy cultivation of the aerial photograph (1:40,000) provided. (15 Marks)
- ii. Describe the distribution pattern of paddy cultivation in the area. (10 Marks)
- (4) Write short notes on **two (02)** of the following; (25 Marks)
- History of aerial photographs.
  - Marginal information of aerial photographs.
  - Geometry of aerial photographs.
  - Recognition elements of aerial photographs.

### Part Three - Synoptic Weather Maps

- (5) Based on the weather data given in **Table 01** and Indo-Sri Lankan weather station outline map provided;
- With appropriate color and symbols mark the synoptic weather characteristics over each weather station. (15 Marks)
  - Draw isobars at 2mb intervals. (05 Marks)
  - Describe weather conditions around Sri Lanka. (05 Marks)

### Part Four- Statistical Cartography

- (6) i. Name five descriptive statistical techniques that can be used to analyze geographic data (05 Marks)
- ii. With examples, explain how above statistical techniques can be used to analyze the geographic data. (20 Marks)
- (7) Based on the data given in **Table 02**;
- Construct a line graph to show the monthly rainfall. (10 Marks)
  - Calculate three months moving average and plot results on a line graph. (10 Marks)
  - Predict rainfall for the month of April 2019 using your graph. (05 Marks)

**Table 02: Average monthly rainfall in Sri Lanka-2018**

<b>Month</b>	<b>Rainfall (mm)</b>
January	165.1
February	132.2
March	62.6
April	617.9
May	326.6
June	102.4
July	96.2
August	106.5
September	278.1
October	530.3
November	297.4
December	173.0

Source: Department of Meteorology

