SRI LANKA SURVEY DEPARTMENT

Promotion Examination from Class II "B" to Class II "A" of Sri Lanka Technological Service Officers -2015

(For Map Technological Officers)

Elementary Cartography

2015.07.17 Time: Three (03) hours 0900 – 1200 hours

Answer all Questions.

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1. (a) What is generalization?

(04 marks)

(b) Generalization is two types. Explain with example

(05 marks)

(c) Name visual variables and describe why? Need visual variables in cartography.

(06 marks)

(d) Basis on dimensions map symbols can be categorized in to three types, discuss those three types with advantages and disadvantages.

(05 marks)

(e) Name the three map layout types

(03 marks)

2.

(a) What are the three methods of expressing map scale on a map?

(03 marks)

(b) What are the differences between a map and a plan?

(06 marks)

(c) Why scale is important in map designing?

(05 marks)

(d) What are the factors influencing in map designing?

(10 marks)

3.

(a) What are the data sources uses in mapping?

(06 marks)

(b) What would be the suitable resolution of a satellite image to prepare a 1:10,000 land use map? Justify your answer

(10 marks)

4.

Draw a diagram to illustrate followings.

(i) Local Meridian
(ii) Latitude
(iii) Longitude
(iv) True North

(12 marks)

5.

(a) What are the advantages and disadvantages of a digital map comparing with a hard copy map?

(07 marks)

(b) What are the four measurement levels?

(04 marks)

(c) What are the four visual perception properties?

(04 marks)

(d) Copy this table and complete

Feature class	Measurement Level	Visual Perception Property	Suitable visual variable/Variables
Land Use			
Road Classes			
Temperature			
Population Density			
Elevation			

(10 marks)