2310/304 2312/304 CARTOGRAPHY June/July 2021 Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL DIPLOMA IN PHOTOGRAMMETRY AND REMOTE SENSING DIPLOMA IN LAND SURVEYING

CARTOGRAPHY

3 hours

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination:
Calculator;
Answer booklet.
This paper consists of EIGHT questions.
Answer FIVE questions.
All questions carry equal marks.
Maximum marks for each part of a question are as shown.
Candidates should answer the questions in English.

This paper consists of 2 printed pages.

Candidates should check the question paper to ascertain that both pages are printed as indicated and that no questions are missing.

May had = 35km Scaled 1: 30,000 ferry = 2cm scale = X. (a) Explain the importance of cartographic generalization in map making. (4 marks) Outline eight elements of map generalization. Select (b) - Combination (16 marks) 2. Using illustrations in each case, explain five visual variables used to design symbols for representing of geographic data. (20 marks) (a) 3/ Distinguish between Basic and Derived maps. (8 marks) (b)4 Explain the measurement levels of cartographic symbols giving examples in (12 marks) that I make bound in the sides of investigations of 4. Using illustrations, Outline the characteristics of mapping text. (a) (10 marks) Outline three methods of showing scales on maps. - of glerned State (b) (6 marks) (c) A road of 2 km in length measures 8 cm on an aerial photograph. Calculate the length of the road on a map whose scale is 1:50,000. (4 marks) 5. % Using illustrations, explain the breakdown of 148/F Tope sheet to 1:2,500 Topo (a) Cadastral series, stating the sheet dimensions at each stage... (20 marks) State five reasons for map revision in updating the maker upto date - helps in keeping the information upto date 6. (a) (5 marks) Complete revor -> airs at upd (6 marks) changed ! Outline three different types of map revision. 4 Quick myillon (b) Describe the procedure of producing a revised map. (9 marks) 7.× State four reasons for preparing a proof copy. (4 marks) (b) Given a right reading original on a film positive, use illustrations to describe the process of preparing a printing plate. (16 marks) (a) Explain the methods of producing the following graphic images:

(i) positive; - I allow the temporal between the positive; negative; - It is an Image that along the transfer of testilet badeground which is for right reading; - It is on Image that reads from left to right on the environment (ii) (iii) mirror reversed. - It is on long on the topside of the markers (8 marks) (iv) (b) Describe the following types of maps with reference to map compilation: (i) basic; derived. - example, Hetelogenous (ii)(8 marks) (c) State four types of perception properties of visual variables. (4 marks) - Size - The importance of the feature - Style THIS IS THE LAST PRINTED PAGE. 2310/304 2312/304 2

ZKM

June/July 2021