

1308/315
LAND SURVEYING
CRAFT PRACTICE
June/July 2020
Time: 6 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL
CRAFT CERTIFICATE IN LAND SURVEYING

LAND SURVEYING CRAFT PRACTICE

6 hours

INSTRUCTIONS TO CANDIDATES

You should have sufficient materials for this examination as specified.

*This paper is to be issued to the candidates **ONE** day in advance of the examination.*

During the time, the candidate will study the instructions and requirements of the task, consider any problems, select the tools and ensure that all the materials specified will be available for the examination.

*Each candidate is allowed **SIX** hours for this examination plus a rest interval of **ONE (1)** hour between field and office which is to be fixed by the examiner.*

This paper consists of 2 printed pages.

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

TOPIC:

GRID LEVELLING

REQUIREMENTS

A: MATERIALS

- (i) Pegs (10 No.)
- (ii) Drawing paper, size A2

B: EQUIPMENT AND ACCESSORIES

- (i) Levelling instrument.
- (ii) Levelling staff.
- (iii) 30 meter tape.
- (iv) 100 meter steel band.
- (v) Ranging rods (3 No.)
- (vi) Mallet.
- (vii) Scale rule, straight edge, set squares
- (ix) Pencils (2H, HB) and rubber.

C: SITE CHARACTERISTICS

Area not less than 0.5 Ha., with gentle gradient.

TASKS

- (i) Set out a square 30 x 30 meter.
- (ii) Divide the square into nine square of 10 x 10 meters.
- (iii) Using a levelling instrument and a staff take level readings at the grid intersetions.
- (iv) Book and reduce the readings by rise and fall method.
- (v) Plot the grid at a suitable scale and indicate the reduced level at each point.
- (vi) Deduce a suitable contour interval.
- (vii) Interpolate and plot at least **two** contours.

THIS IS THE LAST PRINTED PAGE.