



# **THE KENYA POLYTECHNIC**

## **SURVEYING & MAPPING DEPARTMENT**

### **DIPLOMA IN LAND SURVEYING**

#### **END OF YEAR I EXAMINATIONS**

**NOVEMBER 2006**

#### **SURVEY PRACTICAL**

**1 HOUR 30 MINUTES**

#### **INSTRUCTIONS TO CANDIDATES:**

You should have the following for this examination:

Answer booklet

Calculator/Mathematical tables

Answer ALL questions.

Time allowed for question 1 observations is 20 minutes.

Maximum time allowed for question 2 observations is also 20 minutes.

The remainder of the time i.e. 50 minutes is for your data reductions and computations.

Book and answer ALL questions in the question paper.

This paper consists of 2 printed pages.

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1. Set up the theodolite over the station mark labeled A. Make all necessary set up preparations for observation. Make observations to determine:

- (i) The included angle between "B" and "C"
- (ii) The height difference between "B" and "C"

2. Given the reduced level of Benchmark  $B_{MOO}=100.00\text{m}$ , determine the reduced levels of points "D" and "E" using height of collimation