

KENYA NATIONAL EXAMINATION COUNCIL KCSE, 2014

AVIATION TECHNOLOGY PAPER 2 ANALYSIS

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3.6.2 Electricity Paper 2 (448/2)

The paper had 5 equally weighted compulsory exercises. It tested competencies in the following areas:

- Circuit connection and manipulation, schematic drawing and calculations.
- Fabricating a candle stand with details given in its development.
- Connecting the electronic circuit provided by KNEC to a DC power supply and taking readings then drawing a graph from which the resistances at maximum power transfer.
- Circuit study by taking measurements of current and voltage then using them to plot a graph then interpreting the graph.
- Domestic installation of a lighting circuit of one lamp to be controlled from one point.

Weaknesses

- Some candidates had challenges completing the tasks in time.
- Schematic drawings and calculations were a challenge to quite some candidates.
- Plotting the curve in station 3 was challenging to quite a number of candidates
- The use of unfamiliar tools and equipment during examinations should be discouraged.
- Some candidates could not read the measuring instruments in question 4 as expected
- Teachers should teach holistically by ensuring that they cover the whole syllabus and also give more practicals by timing the students.