**MWAKICAN JOINT EXAMINATION (MJET)**

FORM 4 TERM 1 2015

232/3

PHYSICS PAPER 3

***CONFIDENTIAL***

The teacher should make sure that the following apparatus are available

***QUESTION ONE***

* *A bare copper wire of diameter 0.71 mm (SWG 22) and length 50cm.*
* *A retort stand, boss and clamp*
* *An optical pin mounted on a cork*
* *A stop watch*
* *Wire cutters /pliers(to be shared)*
* *A metre rule or half metre rule*
* *A cylindrical container*
* *Some water*
* *a boiling tube*
* *some sand(in 100ml beaker)*
* *Spatula*
* *a rubber band*

***QUESTION TWO***

* *A 250 cm3 beaker*
* *Water*
* *Screen*
* *Candle*