**232/3 MECS – APRIL 2023 PHYSICS CONFIDENTIAL**

**QUESTION 1**

 **You are provided with:**

* One dry cell and a cell holder
* One milliammeter (**0 - 1 mA**)
* A resistor labelled k **(resistance of k =1 k Ω)**
* A chain of six resistors arranged as shown below.
* A switch
* Connecting wire

**QUESTION 2**

***Each student should have the following:***

* A metre rule.
* A retort stand, boss and clamp.
* A stop watch
* An overflow can

(**volume <180 ml. To be shared if the volume greater than 180 ml)**

* Two 50 ml beakers labelled X and Y
* A 25 ml measuring cylinder
* two pieces of thread; 30cm and 100cm
* Mass labelled M
* A 250ml beaker containing 200 ml of liquid L
* A 250ml beaker with water
* Electric beam balance
* Tissue paper