KUTTIPPURAM Sub dist.
Silent BellS
ഫസ്റ്റ്ബെൽ – അനുബന്ധ പഠനസഹായകസാമഗ്രി

STANDARD	SUBJECT: PHYSICS	MEDIUM: ENGLISH	DATE: 4/11/2020
10	MOTION	WORKSHEET NO : 3.13	https://www.youtube.com/watch?v=IzNRMHMttag

1. Correct any of the following statements regarding the household electrification circuit.

   i. The power line to the house is first connected to the main switch and then to the electrical equipment through the watt hour meter and fuse.
   ii. Even if the main fuse in a household circuit melts, there will still be current flowing to the main switch.
   iii. Safety fuses are installed in household circuits on phase lines

2. What are the standard color code to use for phase, Neutral, and Earth lines in a household electrical circuit.

3. I. In what way should electrical appliances be included in household electrification circuits? Series / parallel
   ii. What is the voltage experienced to such electrical appliances in according to the present electricity distribution system?
   iii. Three bulbs with different power ratings are included in such a household circuit. In the event of a bulb failure with high power rating
   Will the other two bulbs light up when the switch is turned on?

4. Which of the following is the use of a watt hour meter?
   a) Measure the current through the mains
   b) Measure the energy loss of electrical equipment
   c) Measure total power in the circuit
   d) Estimate household energy consumption

5. Fuses, MCB, ELCB etc. are used to ensure safety in the home circuit.
   I) What are the differences between a safety fuse and an MCB?
   ii) What are the advantages of MCB over Fuse?
   iii) Complete MCB, ELCB, RCCB