

2. Voltmeter should always be connected in parallel.
3. Rheostat should always be connected in series.
4. Key should always be connected in series.

Utility:-

It is use for measuring unknown value of resistance.

Precautions:-

1. The connection should be set in parallel order.
2. Tight the connecting screws properly to avoid loose connections.

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ACTIVITY 7

Aim:- To study the refraction and lateral deviation of a light passing through a glass slab.

Apparatus:- White paper, Glass slab, Drawing pins, Meter scale, Pencil etc.

Theory:- When a ray of light is incident on one side of a glass slab. It emerges from the other parallel surface in the same direction. It only suffers some lateral displacement which is directly proportional to the thickness of the refracting material. Here, $\angle i = \angle e$

Procedure:-

1. Fixed a white sheet of paper on the drawing board with the help of drawing pins.
2. Place a glass slab on the sheet and marked its boundary PQRS. Now remove the glass slab.

4.If the object is placed between centre of curvature C_1 and focus F_1 image is formed beyond centre of curvature C_2 .The image is real, inverted and highly magnified.

6.If the object is placed between focus F_1 and pole, the image is formed in front of the lens. The image is virtual. Erect and magnified.

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