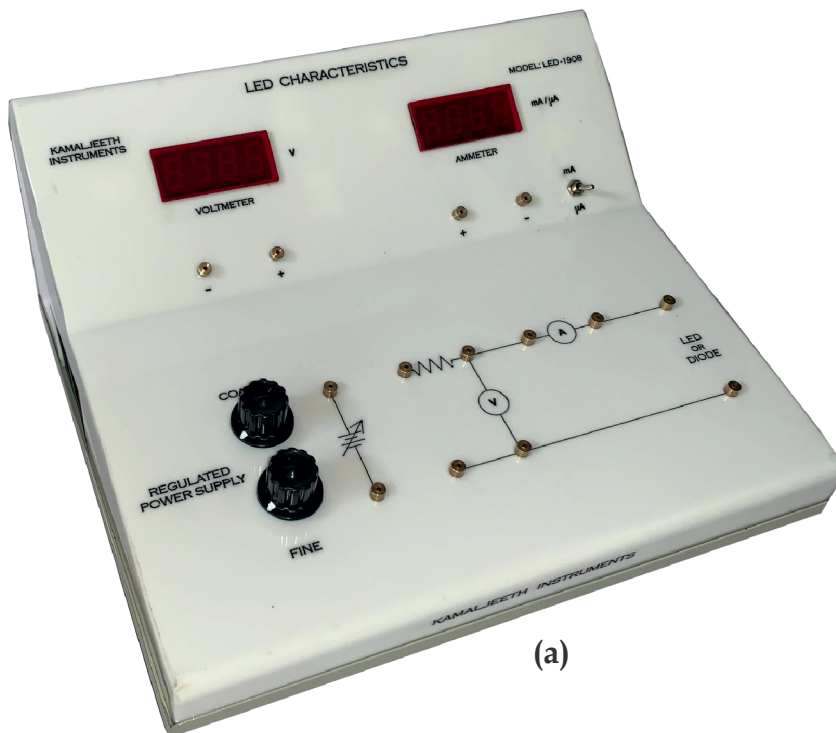


**Experiment(s):**

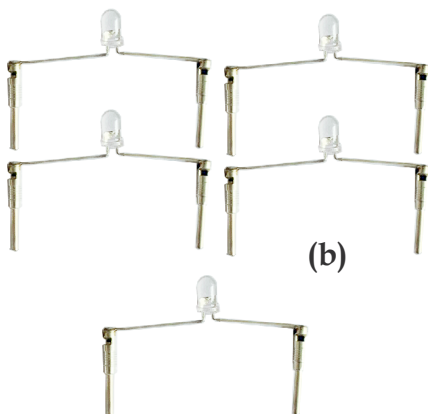
1. Determination of knee voltage, plotting I-V characteristics in forward and reverse bias for an LED

(For more details, procedure & manual visit: [www.kamaljeeth.net](http://www.kamaljeeth.net))

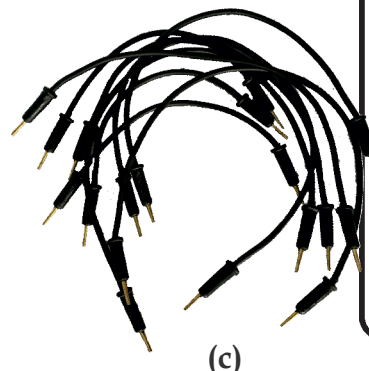
Reference : Lab Experiments Journal vol-1, No.1, Page-20



(a)



(b)



(c)

**Experiment setup consists:**

- a) LED characteristics kit
- b) Set of LEDs
- c) Patch cords

**Specifications:**

**a) LED characteristics kit**  
 Power supply: 0-20 V DC variable & regulated  
 Volt meter: Digital DC 3½ digit  
 Range: 20 V  
 Resolution: 0.01 V  
 Current meter: Digital DC 3½ digit  
 Range selector: Single step  
 Range: 200 mA or 200  $\mu$ A  
 Resolution: 0.1 mA or 0.1  $\mu$ A  
 Device mounting: External  
 Rated Input: 220 V/50 Hz or 110 V/60 Hz  
 Power consumption: < 50W  
 Cabinet: Acrylic body, aluminium bottom

**b) Semi-conductor devices**  
 LEDs - Red , Yellow, Green, Blue & IR

**c) Patch cords**  
 Set of standard 2 mm Patch cords of different lengths with spare cords



**KAMALJEETH INSTRUMENTS**

ESTD. 1990

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3 years manufacturing warranty