

PADMAWATI SR. SEC. SCHOOL

PRACTICAL LIST OF CLASS XII FOR BOARD EXAMINATION (2020-21)

PRACTICALS - Total Periods: 32 The record, to be submitted by the students, at the time of their annual examination, has to include: Record of at least 8 Experiments 4 from each section, to be performed by the students Record of at least 6 Activities [with 3 each from section A and section B], to be demonstrated by teacher.

EVALUATION SCHEME

Time Allowed: Three hours

Max. Marks: 30

1. Two experiments one from each section (8+8) Marks

2. Practical record (experiment and activities) 7 Marks

3. Viva on experiments and activities 7 Marks

Section A Experiments [To be performed]

1. To determine resistance per cm of a given wire by plotting a graph for potential difference versus current.
2. To verify the laws of combination (series) of resistances using a metre bridge.
3. To find resistance of a given wire using metre bridge and hence determine the resistivity (specific resistance) of its material.
4. To determine the internal resistance of given primary cell using potentiometer.

Section A Activities [only for demonstration and to be recorded]

1. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.
2. To assemble the components of a given electrical circuit.
3. To study the variation in potential drop with length of a wire for a steady current.

Section B Experiments [To be performed]

1. To find the focal Length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$.
2. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
3. To determine refractive index of a glass slab using a travelling microscope.
4. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias.

Section B Activities [only for demonstration and to be recorded]

1. To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.
2. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
3. To study the nature and size of the image formed by a (i) convex lens, (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror).