

PROF. SANTOSH MITTAL Hr. Sec. SCHOOL, PACHORE
PRACTICAL EXAMINATION OF SSCE 2026
Physics (042)

Class : XII

Max. Marks: 30

Date : 13/01/2026

Time Allowed: 180 Min

Q1. Two experiments one from each section

(7+7)

Section A

- (1) To determine resistivity of two wires by plotting a graph for potential difference versus current.
- (2) To find resistance of a given wire / standard resistor using metre bridge.
- (3) To verify the laws of combination (series) of resistances using a metre bridge.
- (4) To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.

Section B

- (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 find the values of v for different values of u in case of a concave mirror and to find the focal length.
- (3) To find the focal length of a convex mirror, using a convex lens.
- (4) To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias.

Q2. Practical record [experiments and activities]

(5 Marks)

Q3. One activity from any section

(3 Marks)

- A₁. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.
- A₂. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.
- A₃. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter
- B₁. To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items
- B₂. To study the nature and size of the image formed by a convex lens with help of a candle and a screen when the candle is at the different positions from the lens.
- B₃. To study the nature and size of the image formed by a concave mirror with help of a candle and a screen when the candle is at the different positions from the mirror.

Q4. Investigatory Project

(3 Marks)

Q5. Viva on experiments, activities and project

(5 Marks)

Signature

Internal Examiner

Signature

External Examiner