



FEDERAL BOARD OF INTERMEDIATE AND SECONDARY EDUCATION
H-8/4, ISLAMABAD



PHYSICS SSC
(National Curriculum 2006)
FOR PRACTICAL EXAMINATION SSC 2024

S #	List of Practicals
1.	To measure the area of cross section by measuring diameter of a solid cylinder with vernier callipers.
2.	To measure the volume of a solid cylinder by measuring length and diameter of a solid cylinder with vernier callipers.
3.	To measure the thickness of a metal strip or a wire by using a screwgauge.
4.	To find the acceleration of a ball rolling down an angle iron by drawing a graph between $2S$ and T^2 .
5.	To find the value of "g" by free fall method.
6.	Measure the force of limiting friction by rolling a roller on a horizontal plane.
7.	To verify the principle of moments by using a metre rod balanced on a wedge.
8.	To find the weight of an unknown object by using principle of moments.
9.	To study the relationship between load and extension (Helical spring) by drawing a graph.
10.	To draw a graph between temperature and time when ice is converted into water and then to steam by slow heating.
11.	To study the effect of the length of simple pendulum on time and hence find "g" by calculation.
12.	To prove that time period of a simple pendulum is independent of (i) mass of the pendulum (ii) amplitude of the vibration.
13.	To verify the laws of refraction by using a glass slab.
14.	To find the refractive index of water by using concave mirror.
15.	To determine the critical angle of glass using a semi-circular slab and a light ray box/or by prism.
16.	To trace the path of a ray of light through glass prism and measure the angle of deviation.
17.	To set up a microscope and telescope.
18.	Verify Ohm's law (using wire as conductor).
19.	To study resistors in series circuit.
20.	To study resistors in parallel circuit.
21.	To find the resistance of galvanometer by half deflection method.
22.	To trace the magnetic field using a bar magnet.
23.	To trace the magnetic field due to a current carrying circular coil.
24.	To verify the truth table of OR, AND, NOT, NOR and NAND gates.
25.	To make a burglar alarm/fire alarm using an appropriate gate.

Questions to be asked in place of Practical Notebook and Viva Voce. (Total Marks 06)
Write answers of any three of the following questions on your answer sheet.

Q.NO	Questions	Marks
1.	What is the least count of Vernier calipers in (a) millimeters and (b) centimeters?	(2)
2.	Is the acceleration of a ball roll down an angle iron same as gravitational acceleration (g)?	(2)
3.	What is the unit used for force of limiting friction?	(2)
4.	What is Snell's law?	(2)

Note: The above questions will be asked from students as replacement of the marks of Practical Notebook and Viva Voce. The rest of the conduct/format of practical examination will continue as per practice in vogue.