

PHYSICS PRACTICALS: 2021 GUIDELINES

Physics is a basic science and experimental physics is highly significant in the higher secondary level. Under the circumstances of Covid 19 pandemic, the following instructions are issued regarding Physics practicals.

Instructions:

- 1. A minimum of six (6) experiments should be performed by each student with at least three (3) experiments from Class XI experiments and at least three (3) experiments from Class XII experiments.**
- 2. Students should maintain a practical logbook. Writing the Procedure of the experiment may be avoided as per the teacher's discretion.**
- 3. Performing experiment using the same apparatus/ principle and recording them as different experiments should be avoided .**

LIST OF EXPERIMENTS

Class XI experiments (Section A)

1. Vernier Calipers
2. Screw Gauge
3. Sperometer
4. Common Balance
5. Parallelogram law apparataus.
6. Inclined plane.
7. Coefficient of friction
8. Moment Bar
9. Young's Modulus
10. Helical Spring
11. Viscosity
12. Sruface Tension
13. Newton's law of cooling
14. Specific heat capacity.
15. Simple Pendulum
16. Sonometer
17. Resonance Column

Class XII experiments (Section B)

1. Ohm's law
2. Metre Bridge I
3. Metre Bridge II
4. Potentiometer I
5. Potentiometer II
6. Frequency of AC
7. Concave Mirror
8. Convex Lens
9. Logic Gates

10. Convex mirror.
11. Concave Lens
12. Refraction through a prism
13. Glass Slab- Refractive Index
14. Spectrometer

V

Practical Examination: General Instructions

1. Two experiments should be done at the time of practical examination, one experiment from XI (section A) and the other experiment from XII (section B).
2. Scientific calculator can be used.
3. Total marks for the practical examination is forty (40).

Score Distribution

Score

1. Formula and Principle	: 5
2. Setting up of apparatus	: 2
3. Performance and recording of observation	: 6
4. Calculation and result in SI unit	: 4
5. Viva voce	: 1
Total for one experiment	: 18
Total for two experiments	: $18 \times 2 = 36$.
6. Record book	: 4
Total	: 40