

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

| S # | List of Practicals |
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| 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. |

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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.