

Physical Quantities and Measurement

| Sr | Questions | Answers Choice |
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| 1 | The instrument best measures the internal diameter of a pipe is. | A. Screw gauge B. Metre rule C. Vernier caliper D. Measuring tape |
| 2 | A displacement can is used to measure. | A. Mass of liquid B. Mass of solid C. Volume of a solid D. Volume of a liquid |
| 3 | 0.2 mm in units of meters is. | A. 2×10^4 m B. 0.0002 m C. 0.002 m D. None of these |
| 4 | Which of following prefix represents largest value. | A. Pico B. Peta C. Mega D. Kilo |
| 5 | The number of significant figures in 0.00650 s are | A. 2 B. 3 C. 5 D. 6 |
| 6 | A light year is a unit of. | A. Light B. Time C. Speed D. Distance |
| 7 | Which one is a non -physical quantity. | A. Density B. Colour C. Time D. Distance |
| 8 | Micro meter can be used to measure. | A. Current B. Length C. Force D. Mass |
| 9 | Which one of the following unit is not a derived unit. | A. Kilogram B. Watt C. Newton D. Pascal |
| 10 | Which of the following numbers show 4 significant digits. | A. 9000.8 B. 4 C. 0.001248 D. 5174.00 |
| 11 | Volume of water consumed by you per day is estimated in. | A. Cubic metre B. Litre C. Millilitre D. Kilogram |
| 12 | Ratio of millimeter to micrometer is | A. 1000 m B. 0.001 meter C. 1000 D. 0.001 |
| 13 | In a vernier Calipers ten smallest divisions of the Vernier scale are equal to nine smallest divisions of the main scale. If the smallest divisions of the main scale is half millimeter, the Vernier constant is equal to. | A. 0.05 mm B. 0.5 mm C. 0.1 mm D. 0.001 mm |
| 14 | Four students measure the diameter of a cylinder with vernier callipers. Which of the following readings is | A. 3.4 cm B. 3.47 cm C. 3.5 cm D. 3.475 cm |
| 15 | One femtometre is equal to | A. 10^{-15} m B. 10^{15} m C. 10^{-9} m D. 10^9 m |

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| 16 | Two rods with length 12.321 cm and 10.3 cm are placed side by side. the difference is their lengths is. | A. 2.02 cm B. 2 cm C. 2.021 cm D. 2.0 cm |
| 17 | The Instrument that is most suitable for measuring the thickness of a few sheets on cardboard is a. | A. Metre rule B. Micrometer screw gauge C. Measuring tape D. Vernier calipers |
| 18 | The numbers having one significant digit is. | A. 6.0 B. 1.1 C. 6×10^2 D. 7.1 |
| 19 | Which of the following is a base unit. | A. Mole B. Pascal C. Coulomb D. meter per second |
| 20 | When using a measuring cylinder one precaution to take is to. | A. Check for the zero B. Position the eye in line with the bottom of the meniscus C. Look at the meniscus from below the level of the water surface D. Take several readings by looking from more than one direction |