

Physical Quantities and Measurement

Sr	Questions	Answers Choice
1	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
2	The instrument best measures the internal diameter of a pipe is.	A. Screw gauge B. Metre rule C. Vernier caliper D. Measuring tape
3	Two rods with length 12.321 m 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
4	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
5	One femtometre is equal to	A. 10^{-15} m B. 10^{15} m C. 10^{-9} m D. 10^9 m
6	The number of significant figures in 0.00650 s are	A. 2 B. 3 C. 5 D. 6
7	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
8	Which of the following is a base unit.	A. Mole B. Pascal C. Coulomb D. meter per second
9	amount of substance in terms of numbers is measured in	A. Gram B. Mole C. Kilogram D. Newton
10	Micro meter can be used to measure.	A. Current B. Length C. Force D. Mass
11	Which of following prefix represents largest value.	A. Pico B. Peta C. Mega D. Kilo
12	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
13	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
14	A light year is a unit of.	A. Light B. Time C. Speed D. Distance
		A. 2×10^4 m

15	0.2 mm in units of meters is.	B. 0.0002 m C. 0.002 m D. None of these
16	Least count of screw gauge is 0.01 mm. If main scale reading of screw gauge is zero and third line of its circular scale coincides with datum line then the measurement on the screw gauge is.	A. 0.03mm B. 3 mm C. 0.3mm D. 0.1 mm
17	Ratio of millimeter to micrometer is	A. 1000 m B. 0.001 meter C. 1000 D. 0.001
18	Volume of water consumed by you per day is estimated in.	A. Cubic metre B. Litre C. Millilitre D. Kilogram
19	Which one of the following unit is not a derived unit.	A. Kilogram B. Watt C. Newton D. Pascal
20	The numbers having one significant digit is.	A. 6.0 B. 1.1 C. 6×10^2 D. 7.1