

## 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 milimeter, the Vernier constant is equal to.	A. 0.05 mm B. 0.5 mm C. 0.1 mm D. 0.001 mm
2	One femtometre is equal to	A. $10^{-15}$ m B. $10^{15}$ m C. $10^{-9}$ m D. $10^{9}$ m
3	The numbers having one significance digit is.	A. 6.0 B. 1.1 C. $6 \times 10^{-2}$ D. 7.1
4	Volume of water consumed by you per day is estimated in.	A. Cubic metre B. Litre C. Millilitre D. Kilogram
5	Which of the following is a base unit.	A. Mole B. Pascal C. Coulomb D. meter per second
6	The instrument best measures the internal diameter of a pipe is.	A. Screw gauge B. Metre rule C. Vernier caliper D. Measuring tape
7	Which of following prefix represents largest value.	A. Pico B. Peta C. Mega D. Kilo
8	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
9	amount of substance in terms of numbers is measured in	A. Gram B. Mole C. Kilogram D. Newton
10	Which one of the following unit is not a derived unit.	A. Kilogram B. Watt C. Newton D. Pascal
11	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
12	Two rods with length 12.321 cm and 10.3 cm are placed side by side. the difference in their lengths is.	A. 2.02 cm B. 2 cm C. 2.021 cm D. 2.0 cm
13	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
14	Which one is a non -physical quantity.	A. Density B. Colour C. Time D. Distance

15	The number of significant figures in 0.00650 s are	B. 3 C. 5 D. 6
16	Micro meter can be used to measure.	A. Current B. Length C. Force D. Mass
17	Which of the following numbers show 4 significant digits.	A. 9000.8 B. 4 C. 0.001248 D. 5174.00
18	The Instrument that is most suitable for measuring the thickness of a few sheets on cardboard is a.	A. Metre rule B. Micrometer screw guage C. Mesuring tape D. Vernier calipers
19	A light year is a unit of.	A. Light B. Time C. Speed D. Distance
20	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