



SMART TEST SERIES

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|----------|--------------|----------|----------------------------------------|
| Name: | | Subject: | Physics-11 |
| Roll # : | | Unit(s): | 1, |
| Class: | Inter Part-I | Test: | Type 3 - MCQs + SQs Test - Marks=30 |
| Date: | | Time: | |

Q.1 Four possible answers A, B, C & D to each question are given. Circle the correct one. (10x1=10)

- Computer chips are made of:
(A) Silicon (B) Germanium (C) Iron (D) Cadmium
- The SI unit of solid angle is:
(A) Steradian (B) Radian (C) Degree (D) Revolution
- Velocity is:
(A) base quantity (B) derived quantity (C) Both (D) None of these
- Which is not a base unit in SI units?
(A) Kilogram (B) Joule (C) Ampere (D) Kelvin
- Which one of the following is not allowed as standard prefix?
(A) Kilo (B) Nano (C) Mega (D) Micro
- Three base units in SI units are:
(A) kilogram, newton and second (B) gram, centimeter and dyne (C) kilogram, meter and second
(D) gram, joule and second
- The error in a certain measurement occurs due to:
(A) faulty apparatus (B) negligence (C) in-appropriate technique (D) All above
- Significant figures in 0.0045 are:
(A) 1 (B) 3 (C) 4 (D) 2
- The dimensions of weight are given by:
(A) $[LT^{-1}]$ (B) $[LT^{-2}]$ (C) $[MLT^{-2}]$ (D) $[ML^2T]$
- The dimensions of frequency are:
(A) $[LT]$ (B) $[T^{-1}]$ (C) $[MLT]$ (D) $[LT^{-1}]$

Q.2 Write short answers of the following questions.

(10x2=20)

- An old saying is, "A chain is only as strong as its weakest link." What analogous statement can you make regarding experimental data used in computation?**
- Write any two points which should be kept in mind, while using units.
- How many micro seconds in one year?
- The length and width of a rectangular plate are measured to be 15.3cm and 12.80cm respectively, Find the area of the plate?
- Add the following masses given in kg up to appropriate precision. 2.189, 0.089, 11.8 and 5.32**
- What is the difference between absolute uncertainty and percentage uncertainty?**
- How will you assess the total uncertainty in case of power factor? Give an example.
- The mass of a metal box measured by a lever balance is 2.2 kg. Two silver coins of masses 10.01 g and 10.02 g measured by a beam balance are added to it. What is now the total mass of the box correct upto the appropriate precision.
- What is physical significance of dimension of physical quantity?
- Write the dimensions of force and density.