SMART TEST SERIES

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Name:		Subject:	Physics-11
Roll # :		Unit(s):	1,
Class:	Inter Part-I	Test:	Type 8 - Short Test (No Choice) - Marks=30
Date:		Time:	

Q.1 Circle the Correct Answers. (5x1=5)

1 Physics is a quantitative science based on primarily on

(A) Fundamental quantities (B) Definition (C) Experiment and measurement (D) Description

2 Which is not a base unit in SI units?

(A) Kilogram (B) Joule ` (C) Ampere (D) Kelvin

3 One peta is equal to:

(A) 10^{16} (B) 10^{15} (C) 10^{12} (D) 10^{9}

4 **In 5.47 × 19.89 = 108.7983; answer should be written as:**

(A) 108.8 (B) 108.9 (C) 109 (D) 108.79

5 The dimension of the realtion (sqrt{frac{F×l}{m}}) are equal to the dimension of:

(A) Force (B) Momentum (C) Acceleration (D) Velocity

Q.2 Write short answers of the following questions. (8x2=16)

(i) **Mass is a form of energy. How much energy is equivalent to one kg mass, according to Einstein's theory.**

(ii) Write any two points which should be kept in mind, while using units.

(iii) **Define systematic errors. Explain how can we remove the effect of systematic error?**

(iv) **Define significant figures and rounding off data.**

(v) **What do you know about precision and accuracy?**

(vi) **Define Precision. Which instrument can measure precise value meter rod or vernier caliper?**

(vii) **What are the dimensions and S.I units of coefficient of viscosity η in the relation F = 6 $\pi\eta$r v.**

(viii) What are the dimensions units of $\left[\frac{F \times \ell}{m}\right]^{1/2}$?

NOTE: Attempt the long question. (5+4=9)

(b) The length and width of rectangular plate are measured to be 15.3 cm and 12.80 cm respectively. Find the correct area of the plate.

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