UNIT TEST-I

SUB: PHYSICS **TIME: 1.30**
CLASS: XI **MARK: 50**

I.CHOOSSE THE CORRECT ANSWER 10X1=10

1. If the error in the measurement of radius is 2%, then the error in the determination of volume of the sphere will be

a) 8% b) 2% c) 4% d) 6%

2. Which of the following pairs of physicalquantities have same dimension?

a) force and power b) torque and energy c) torque and power d) force and torque

3. The length of a body is measured as 3.51m, if the accuracy is 0.01m, then the percentage error in the measurement is

a) 351% b) 1% c) 0.28% d) 0.035%

4. Which of the following has the highest number of significant figures?

a) 0.007 m2 b) 2.64x1024 kg c) 0.0006032 m2 d) 6.3200 J

5. If π = 3.14, then the value of π2 is

a) 9.8596 b) 9.860 c) 9.86 d) 9.9

6. If the length and time period of an oscillating pendulum have errors of 1% and 3% respectively then the error in measurement of acceleration due to gravity is

a) 4% b) 5% c) 6% d) 7%

7. The density of a material in CGS system of units is 4 g cm-3 In a system of units in which unit of length is 10 cm and unit of mass is 100 g, then the value of density of material will be

a) 0.04 b) 0.4 c) 40 d) 400

8. If the force is proportional to square of velocity, then the dimension of proportionality constant is

a) [MLT0] b) [MLT-1] c) [ML-2T] d) [ML-1T0]

9. 1 parsec =.....

a) 3.08 × 1016 m b)3.26 light year c)1.496x10-15m d)both a & b

10. the largest practical unit of mass is….

a) Shake b) CSL c)kg d)g

II Short Answer Questions 4X2=8

11. Define Unit
12. Write the different types of measuring system
13. Define mass
14. Define dimentional quantities

III Short Answer Questions 4X3=12

15. Briefly explain the types of physicalquantities.
16. Write the rules for determining significant figures.
17. What are the limitations of dimensionalanalysis?
18. Define precision and accuracy. Explain with one example.

IV Long Answer questions 4X5=20

19. Explain in detail the various types of errors.
20. Write a note on triangulation method and radar method to measure larger distances
21. Explain the principle of homogeniety of dimensions. What are its uses? Give example.
22. Convert 76 cm of mercury pressure into Nm^{-2} using the method of dimensions.

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