IIT-JEE / NEET / FOUNDATION (IX &X)

Time: 3 hours	PHYSICS (N			Marks: 50				
NAME OF STUDENT:	MEASUREMENT: UNITS,	DIME		OATE://				
INSTRUCTION:- ATTEMT ALL QUESTION.								
Q1. The dimensional	formula for G is.							
(a) $\mathrm{ML^3~T^{-2}}$	(b) $M^{-1} L^3 T^{-2}$	(c)	$M^{-1} L^2 T^{-3}$	(d) $ML^2 T^{-3}$				
Q2. If <i>L</i> and <i>C</i> denote	inductance and capac	itan	ce, the dimension	s of <i>LC</i> are. [AIIMS 2011]				
(a) $\mathrm{M}^0~\mathrm{L}^0~\mathrm{T}^2$	(b) ML ² T ²	(c)	$M^0 L^2 T^2$	(d) $M^2 L^0 T^2$				
Q3. While measuring acceleration due to gravity by a simple pendulum, a student makes a positive error of 1% in the length of the pendulum and a negative error of 3% in the time period. The percentage error in the measurement of g is.								
(a) 2%	(b) 4%	(c)	7%	(d) 10%				
Q4. The vernier of a circular scale is divided into 30 division, which coincide with 29 main scale divisions. If each main scale division is (1/2) ⁰ , the least count of the instrument is.								
(a) 0.1'	(b) 1'	(c)	10'	(d) 30'				
Q5. The dimensional	formula for resistance	e is		[AIIMS 2005]				
(a) $ m ML^2~T^{-3}~A^{-1}$	(b) $ML^3 T^3 A^2$	(c)	$ML^2 T^{-3} A^{-2}$	(d) $ML^3 T^{-3} A^{-2}$				

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Q6. The dimensions of Planck's constant are same as those of. [AFMC 2011]							
	(a) work			(b) coefficient of viscosity			
	(C) linear momentum		(d) angular momentum				
Q7. Which of the following is not a unit of energy? [AIIMS 1985]							
	(a) W-s	(b) kg-m/s	(c)	N-m	(d) joule		
Q8. Which one of the following has the dimensions of pressure? [AIPMT 1994]							
	(a) $\frac{M}{L^2T^2}$	(b) M/LT	(c)	$\frac{ML}{T^2}$	(d) $\frac{M}{LT^2}$		
Q9. If $X = at + bt^2$, where X is in meters and t in hours (h), then the unit of b IS [AIPMT 1993]							
	(a) m	(b) m/h	(c)	m/h²	(d) m ² /h		
Q10. Percentage errors in the measurement of mass and speed of a particle are 2% and 3% respectively. The error in the estimation of kinetic energy obtained by measuring mass and speed will be							
	1/1/1				[AIIMS 2009]		
	(a) 12%	(b) 10%	(c)	2%	(d) 8%		

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