CLASS 11 | Physic



QUIZ

SH.	APIER-I Units and Medsurement	PART-01
1.	What does physics study? A. The classification of languages B. The structure and use of numbers C. Nature and natural phenomena D. The history of scientific equipment (C)	 6. If the numerical value increases, what happens to the size of the unit for the same physical quantity? A. It increases B. It decreases
Explanation : Physics is defined as the study and		C. It remains unchanged
	analysis of nature and natural phenomena.	D. It becomes dimensionless (B)
2.	Which of the following is a non-physical quantity?	Explanation: Numerical value and unit size are
	A. Mass B. Length	inversely proportional; n1u1=n2u2n_1u_1 = n_2u_2.
_	C. Universe D. Time (C)	7. Which pair lists the maximum values of plane
<i>EX</i> ,	measured; examples given include universe, sky, and happiness. Which statement best describes fundamental	angle and solid angle, respectively? A. 4π, 2π B. 2π, 4π C. 2πr, 4πr ²
-	quantities?	D. Depends on the radius chosen (B)
	A. They depend on other physical quantities B. They do not depend on any other quantities C. They are measured only in the CGS system	 Explanation: The full angle around a point in a plane is 2π radians; the full solid angle around a point in space is 4π steradians. Which is the correct SI base unit for luminous
Ev	D. They cannot be used to define units (B) <i>Eplanation:</i> Fundamental quantities are independent	intensity?
EX	of other quantities (e.g., mass, length, time in	A. Watt (W)
4	mechanics).	B. Candela (cd)
4.	Which of the following is a derived quantity? A. Mass	C. Lumen (lm)
	B. Length	D. Lux (lx) (B) Explanation: Luminous intensity is a fundamental
	C. Time	quantity with the SI unit candela (cd).
	D. Force (D)	9. Which expression correctly represents a derived
Fx	rplanation: Derived quantities depend on	unit?
	fundamental quantities; examples include force,	A. Newton = kg m s- ²
	work, and momentum.	B. Newton = $kg m^2 s^{-2}$
5.	What is a unit?	C. Joule = $kg \text{ m s}^{-2}$
J.	A. A measuring instrument	D. Joule = $kg \text{ m s}^{-2}$ (A)
	B. A fixed standard used to measure a physical	Explanation: Force (newton) is kg m s-2; energy
	quantity	(joule) is Kg m ² s- ²
	C. A type of error in measurement	10. Which system measures mass, length, and time in
	D. A conversion factor between systems (B)	gram, centimetre, and second?
Explanation: A unit is the fixed standard set to		A. MKS B. FPS
	measure a physical quantity.	G C. SIN G Y O N D. CGS G (D)
		Explanation: In the CGS system, mass, length, and
		time are measured in gram, centimetre, and

second.