

BOARD OF INTERMEDIATE & SECONDARY EDUCATION, HYDERABAD Excellence – Equity – Empathy PHYSICS MODEL PAPER (CLASS X) Total Marks: 85 Time: 2 Hours SECTION A Marks 41 MULTIPLE CHOICE QUESTIONS (MCQs) Attempt all questions. Each question carries 1 mark. Q.No: 1 (1) Write answer in full on the first specified page of answer copy with choose (ABC & D) deals with the motion of objects with or without reference of force. (d) Atomic Physics (c) Bio-Physics (b) Mechanics (a) Electricity of all mankind. Science is the common (ii) (d) Law (c) Physics (a) Heritage (b) Energy The only Noble Prize holder from Pakistan is _ (iii) (b) Dr. Abdus Salam (a) Dr. Abdul Qadeer Khan (d) Dr. Saleem uz Zaman. (c) Dr. Samar Abbas In a scientific work the most important thing is _ (iv) (d) Hypothesis (c) Observation (b) Law The fundamental unit of length in S.I system is (v) (c) Yard (d) Foot (a) Kilometer (b) Meter One meter is equal to (vi) (d) $10^6 \, \text{mm}$ (a) $10^4 \, \text{mm}$ Rate of change of velocity of a body is known as (vii) (d) Density (c) Acceleration (b) Time (a) Speed The shortest distance between the initial and final positions of body is called_ (viii) (d) Speed (b) Displacement (c) Distance (a) Position First equation of motion is _ (ix) (d) Vf - Vi = at(c) a = Vf - Vi(b) Vf = Vi + at(a) t = Vf - ViThe unit of coefficient of friction is (x) (d) None (c) Metre (b) Kilogram (a) Newton The S.I unit of force is (xi) (d) Newton (c) Kg (b) m /sec (a) Metre The product of mass and velocity is called its _ (xii) (d) Velocity (c) Speed (a) Momentum (b) Weight The quantity of matter in a body is called its (xiii) (d) Force (c) Weight (b) Mass (a) Speed is a scalar quantity. (xiv) (d) Acceleration (c) Momentum (b) Distance (a) Torque

(d) Temperature

(c) Velocity

(b) Vector Quantity (c) Negative Quantity (d) None of these

is a vector quantity.

(b) Density

(xv)

(xvi)

(a) Work

Torque is a _

(a) Scalar Quantity

(xvii)	i) The unit of torque in S.I Units is						
	(a) Newton	(b) Meter	(c) Newton Metre	(d) Pound			
(xviii)	The turning effect of a force about an axis is						
		(b) Rotation	(c) Torque	(d) Momentum			
(xix)	"G" is called	•					
	(a) Gravity		(b) Gravitational Force				
	(c) Gravitational Acce	leration	(d) Gravitational Constant				
(xx)	- and displacement is						
	(a) 90^0	(b) 45 °°		(d) 0^0			
(xxi)	The energy possessed						
	(a) Kinetic Energy			(d) Sound Energy			
(xxii)							
,	(a) Work		(c) Power	(d) Energy			
(xxiii)	i) Ability of a body to do work is called						
	(a) Power		(c) Velocity	(d) Heat			
(xxiv)	(v) Power is the product of and velocity.						
	(a) Force	(b) Power	(c) Energy	(d) Work			
(xxv)	Energy is a	quantity					
	(a) Vector	(b) Scalar	(c) Positive	(d) Negative			
(xxvi)	A pair of scissors is a	n example of a	III.Ph				
(/	(a) Pulley	(b) Lever	(c) Wheel and axle	(d) Inclined Plan			
(xxvii		ype disc					
((a) Pulley		(c) Wheel	(d) In Put			
(xxviii)The Product of Load and Load Arm is called							
((a) Moment of Effort			(d) Moment of load			
(xxix)	ix) Elasticity of a substance depends on its.						
(/	(a) Temperature		(c) Nature	(d) Size			
(xxx)			etermine				
(xxx) Archimedes principle is applied to determine							
(XXXI)	(a) Robert Boyle			(d) Robert Hooke			
Cornerii			ecause of one of the propertie	es of water			
(XXXII			ension (c) Viscosity				
(ii) is the form of		(-)				
(XXXI	(a) Heat		ıre (c) Power	(d) Weight			
(xxxi	v)Light travels in a	_ line.	. ,	(d) Negative			
(xxxv	(a) Straight b) Light is the form of _	(b) Vertical	(c) Positive	(d) Negative			
	(a) Power						
(xxxvi) If $q = 4$ cm and $p = 2$ cm, then the magnification of the mirror is							
	(a) 2	(b) 0.5	(c) 6	(d) 4			

(xxxvii) The speed of light is m /sec								
(a) 3×10^6	(b) 3×10^8	(c) 1.86×10^6	(d) 3×10^{10}				
(xxxviii) Which one of the equivalent to "Joule per Coulomb"								
. (a) Ampere	(b) Ohm	(c) Volt	(d) Watt				
(xxxix)One mega ohm resistance is equal to ohm.								
(a) 10 ⁶	(b) 10 ⁻⁶	(c) 10^8	(d) 10^2				
(xl)	revolve around the nucleus in their respective orbits.							
(a) Neutrons	(b) Protons	(c) Electron	(d) Deuteron				
(xli) 1	$00^{\circ}c = \underline{\qquad} k.$							
(;	a) 373	(b) 273	(c) 150	(d) 270				
		a.						
SECTION B 24 Marks								
	*	SHORT AN	SWERS					
NOTE: Attempt any four of the following question. Each carries 06 marks.								
Q.No:2 Explain the word Physics and define what is Physics?								
Q.No:3	Q.No:3 What is Law of Gravitation?							
Q.No:4	:4 Drive the Equation 2aS=vf ² -vi ²							
Q.No:5	Define the branches of Physics? Any Four .							
Q.No:6	What is a Lever? Determine its mechanical advantage.							
Q.No:7	Determine the acceleration of a car of mass 900kg, when a net force of 2700N acts on it.							
Q.No:8	Differentiate between mass and weight?							
		SECTION	Processor and the control of the con					
(LONG ANSWER)								
NOTE: Answer any TWO of the following questions. Each carries 10 marks. (20 Marks)								
Q.No:09	How can we determine the mass of the earth by applying law of Gravitation?							
Q.No:10	Explain series and parallel combination for resistance.							
Q.No:11	What type of work is done by a movable pulley?							
Q.No:14	Write notes on any Two of the following:							
	(i) Newton's Second Law of Motion							
	(ii) Resolution of V	Vector						
	(iii) Centripetal For	rce						
	N. A. S.							