

THE PUNJAB SCHOOL

DRC-JTC

Practice worksheet-1

Self-Assessment-Summer 2020

Physics:-1

Class-IX

Marks: 50

20x1=20

Q: 1 Encircle the correct option:

a) Straight line	b) Circular path	c) Straight without	d) Zigzag
-	•	rotation	
i- Which of th	ne following is a vector quan	tity?	
a) Speed	b) distance	c) displacement	d) power
ii- A ball throw	l wn vertically upwards, its vel	ocity at highest point is	
a) Zero	b) -10 ms ⁻¹	c) 10 ms ⁻¹	d) None
v- A body is m	noving with uniform speed, i	ts acceleration will be	
a) 2ms ⁻²	b) Zero	c) 5 ms ⁻²	d) None
/- A body is m	noving with variable speed, it	ts graph would be	
a) Straight line	b) curved	c) circular	d) none
/i- A train is m	oving with the speed of 36k	mh ⁻¹ . Its speed in ms ⁻¹ is	
a) 10 ms ⁻¹	b) 20 ms ⁻¹	c) 25 ms ⁻¹	d) 30 ms ⁻¹
/ii- A change ir	a position is called		
a) Distance	b) Displacement	c) Velocity	d) Acceleration
/iii- A body rota	ating around its axis is said to	be in	
a) Linear Motion	b) Rotatory Motion	c) Translatory Motion	d) None
x- Value of g i	S		
a) 9.8 ms ⁻²	b) 98 ms ⁻²	c) 0.98 ms ⁻²	d) 0.098 ms ⁻²
- A body at r	est covers distance		
a) Zero	b) 1m	c) 0.1m	d) 0.001m
ki- Which state	e of the body is relative?	I	
a) Rest	b) Motion	c) Rest and motion	d) None
kii- Types of th	e motion are	I	I
a) 2	b) 3	c) 4	d) 5
xiii- Which is no	ot a type of motion?	1	1
a) Translatory	b) Rotatory	c) Elastics	d) None
xiv- The distance	e covered in a unit time is ca	lled	1
a) Speed	b) Velocity	c) Acceleration	d) None
xv- Negative ad	cceleration is also called		1
a) Ideal acceleration	b) Deceleration	c) Acceleration	d) None
vi- Scalar quar	ntity is completely described	by its	

a) Magnitude	b) Direction	c) Both a a	and b d)	None				
xvii- Which is a v	rector quantity?							
a) Speed	b) Volume	c) Energy	d)	Momentum				
xviii- Which is not an example of vector quantity?								
a) Work	b) Force	c) Momen	tum d)	Torque				
xix- Gravitation	acceleration is denoted by							
a) G	b) G	c) ga	d)	none				
xx- Bodies falling down freely, g will be								
a) positive	b) Negative	c) Zero	d)	None				
Subjective Type								
0.2 A now on the followi	ng any four short questions	51		/42-8				
Q:2 Allswer the followi	/4x2=0							
		1 0						
ii. Differentiate between rest and motion with examples?								
iii. Differentiate between circular and rotatory motion with examples?								
iv. Elaborate scalar and vector quantities with examples?								
v. Represent 80 newton force acting North of East with given procedure?								
Q:3 Answer the followi	/3x2=6							
i. What is meant by position vector?								
ii. Differentiate between uniform acceleration and variable acceleration with graph?								
iii. Can a scalar be added to vector quantity? Explain.								
iv. Differentiate between speed and velocity?								
Q:4 Answer the followi	/3x2=6							
i. A car is moving with uniform velocity of 10ms ⁻¹ for 10 seconds. Find the distance covered by the car.								
ii. Define gravitat	ional acceleration.							
iii. Draw distance	- time graph of a body moving	with variable spe	ed.					
iv. Define linear n	notion with example?							
Q:5 Answer the followi		/10x1=10						
i- Prove: S=V _i	$t+1/2at^{2}$							

ii- A car is moving with the uniform speed of 60ms⁻¹ for 30 seconds. Find the distance travelled by the car.