### MULTIPLE CHOICE QUESTIONS (MCQs)

<ul> <li>(1) The change of position of a body in a particular direction is called its:  * Displacement * Velocity * Speed * Acceleration</li> <li>(2) The shortest distance between two points covered along a straight line is called:  * Speed * Displacement * Velocity * Acceleration</li> <li>(3) The S.I unit of displacement is:  * Metre * Foot * Centimeter * All of these</li> <li>Velocity:  (4) The rate of change of distance is called:  * Motion * Velocity * Speed * Acceleration</li> <li>(5) The rate of change of displacement is called:  * Speed * Acceleration * Velocity * Retardation</li> <li>(6) The total change of displacement divided by the total change in time of a body is called its:  * Uniform Velocity * Instantaneous Velocity</li> <li>* Average Velocity</li> <li>* Non-Uniform Velocity</li> <li>* Non-Uniform Velocity</li> <li>* Uniform Velocity</li> <li>* Average Velocity</li> <li>* Uniform Velocity</li> <li>* Uniform Velocity</li> <li>* Uniform Velocity</li> <li>* Uniform Velocity</li> <li>* Average Velocity</li> <li>* Uniform Velocity</li> <li>* Uniform Velocity</li> <li>* Uniform Velocity</li> <li>* Constant acceleration</li> <li>* Variable acceleration</li> <li>* Retardation</li> <li>(9) The magnitude of velocity is called:  * Acceleration * Speed * Distance * Retardation</li> <li>(10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:</li> </ul>	Displ	acement:	
<ul> <li>(2) The shortest distance between two points covered along a straight line is called:     * Speed    * Displacement    * Velocity</li></ul>	(1)	The change of position of a body in a par	
* Speed * Displacement * Velocity * Acceleration  (3) The S.I unit of displacement is:  * Metre * Foot * Centimeter * All of these  Velocity:  (4) The rate of change of distance is called:  * Motion * Velocity * Speed * Acceleration  (5) The rate of change of displacement is called:  * Speed * Acceleration * Velocity * Retardation  (6) The total change of displacement divided by the total change in time of a body is called its:  * Uniform Velocity * Instantaneous Velocity  * Average Velocity * Non-Uniform Velocity  * Average Velocity * Average Velocity  * Uniform Velocity * Average Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform Velocity * Constant acceleration  * Variable acceleration * Constant acceleration  * Variable acceleration * Retardation  (9) The magnitude of velocity is called:  * Acceleration * Speed * Distance * Retardation  (10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:		* Displacement * Velocity	* Speed * Acceleration
<ul> <li>(3) The S.I unit of displacement is:  * Metre * Foot * Centimeter * All of these</li> <li>Velocity: (4) The rate of change of distance is called:  * Motion * Velocity * Speed * Acceleration</li> <li>(5) The rate of change of displacement is called:  * Speed * Acceleration * Velocity * Retardation</li> <li>(6) The total change of displacement divided by the total change in time of a body is called its:  * Uniform Velocity * Instantaneous Velocity  * Average Velocity * Non-Uniform Velocity  * Non-Uniform Velocity * Average Velocity  * Uniform Velocity * Average Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform Velocity * Constant acceleration  * Variable acceleration * Retardation</li> <li>(9) The magnitude of velocity is called:  * Acceleration * Speed * Distance * Retardation</li> <li>(10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:</li> </ul>	(2)	The shortest distance between two points	s covered along a straight line is called:
* Metre * Foot * Centimeter * All of these  Velocity:  (4) The rate of change of distance is called:     * Motion * Velocity * Speed * Acceleration  (5) The rate of change of displacement is called:     * Speed * Acceleration * Velocity * Retardation  (6) The total change of displacement divided by the total change in time of a body is called its:     * Uniform Velocity * Instantaneous Velocity     * Average Velocity * Non-Uniform Velocity  (7) The change of displacement in a very small interval of time of a body is called its:     * Non-Uniform Velocity * Average Velocity     * Uniform Velocity * Instantaneous Velocity  (8) The average and instantaneous velocities will be equal when a body moves with:  [2008 F]  * Uniform velocity * Constant acceleration     * Retardation  (9) The magnitude of velocity is called:     * Acceleration * Speed * Distance * Retardation  (10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:		* Speed * Displacement	* Velocity * Acceleration
* Metre * Foot * Centimeter * All of these  Velocity:  (4) The rate of change of distance is called:     * Motion * Velocity * Speed * Acceleration  (5) The rate of change of displacement is called:     * Speed * Acceleration * Velocity * Retardation  (6) The total change of displacement divided by the total change in time of a body is called its:     * Uniform Velocity * Instantaneous Velocity     * Average Velocity * Non-Uniform Velocity  (7) The change of displacement in a very small interval of time of a body is called its:     * Non-Uniform Velocity * Average Velocity     * Uniform Velocity * Instantaneous Velocity  (8) The average and instantaneous velocities will be equal when a body moves with:  [2008 F]  * Uniform velocity * Constant acceleration     * Retardation  (9) The magnitude of velocity is called:     * Acceleration * Speed * Distance * Retardation  (10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:	(3)	The S.I unit of displacement is:	
<ul> <li>(4) The rate of change of distance is called:  * Motion * Velocity * Speed * Acceleration</li> <li>(5) The rate of change of displacement is called:  * Speed * Acceleration * Velocity * Retardation</li> <li>(6) The total change of displacement divided by the total change in time of a body is called its:  * Uniform Velocity * Instantaneous Velocity  * Average Velocity * Non-Uniform Velocity  * Non-Uniform Velocity * Average Velocity  * Non-Uniform Velocity * Average Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform Velocity * Constant acceleration  * Variable acceleration * Retardation</li> <li>(9) The magnitude of velocity is called:  * Acceleration * Speed * Distance * Retardation</li> <li>(10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:</li> </ul>			* Centimeter * All of these
<ul> <li>(4) The rate of change of distance is called:  * Motion * Velocity * Speed * Acceleration</li> <li>(5) The rate of change of displacement is called:  * Speed * Acceleration * Velocity * Retardation</li> <li>(6) The total change of displacement divided by the total change in time of a body is called its:  * Uniform Velocity * Instantaneous Velocity  * Average Velocity * Non-Uniform Velocity  * Non-Uniform Velocity * Average Velocity  * Non-Uniform Velocity * Average Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform Velocity * Constant acceleration  * Variable acceleration * Retardation</li> <li>(9) The magnitude of velocity is called:  * Acceleration * Speed * Distance * Retardation</li> <li>(10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:</li> </ul>	Velo	city:	
* Motion * Velocity * Speed * Acceleration  (5) The rate of change of displacement is called:     * Speed * Acceleration * Velocity * Retardation  (6) The total change of displacement divided by the total change in time of a body is called its:     * Uniform Velocity * Instantaneous Velocity     * Average Velocity * Non-Uniform Velocity  (7) The change of displacement in a very small interval of time of a body is called its:     * Non-Uniform Velocity * Average Velocity     * Uniform Velocity * Instantaneous Velocity  (8) The average and instantaneous velocities will be equal when a body moves with:      * Uniform velocity * Constant acceleration     * Variable acceleration * Retardation  (9) The magnitude of velocity is called:     * Acceleration * Speed * Distance * Retardation  (10) If \$\Delta r\$ is the change in the position of body during time \$\Delta t\$, then its velocity is equal to:		•	
* Speed * Acceleration * Velocity * Retardation  (6) The total change of displacement divided by the total change in time of a body is called its:  * Uniform Velocity * Instantaneous Velocity  * Average Velocity * Non-Uniform Velocity  (7) The change of displacement in a very small interval of time of a body is called its:  * Non-Uniform Velocity * Average Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform velocity * Constant acceleration  * Variable acceleration * Retardation  (9) The magnitude of velocity is called:  * Acceleration * Speed * Distance * Retardation  (10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:		* Motion * Velocity	* Speed * Acceleration
* Speed * Acceleration * Velocity * Retardation  The total change of displacement divided by the total change in time of a body is called its:  * Uniform Velocity * Instantaneous Velocity  * Average Velocity * Non-Uniform Velocity  The change of displacement in a very small interval of time of a body is called its:  * Non-Uniform Velocity * Average Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform Velocity * Instantaneous Velocity  * Uniform velocity * Constant acceleration  * Variable acceleration * Retardation  (9) The magnitude of velocity is called:  * Acceleration * Speed * Distance * Retardation  (10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:	(5)	The rate of change of displacement is cal	lled:
<ul> <li>its: <ul> <li>* Uniform Velocity</li> <li>* Average Velocity</li> <li>* Non-Uniform Velocity</li> </ul> </li> <li>(7) The change of displacement in a very small interval of time of a body is called its: <ul> <li>* Non-Uniform Velocity</li> <li>* Average Velocity</li> <li>* Uniform Velocity</li> <li>* Instantaneous Velocity</li> </ul> </li> <li>(8) The average and instantaneous velocities will be equal when a body moves with:  <ul> <li>[2008 F]</li> </ul> </li> <li>* Uniform velocity</li> <li>* Constant acceleration</li> <li>* Retardation</li> </ul> <li>(9) The magnitude of velocity is called: <ul> <li>* Acceleration</li> <li>* Speed</li> <li>* Distance</li> <li>* Retardation</li> </ul> </li> <li>(10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:  <ul> <li>The distribution</li> <li>* Acceleration</li> </ul> </li>		* Speed * Acceleration	* Velocity * Retardation
<ul> <li>its: <ul> <li>* Uniform Velocity</li> <li>* Average Velocity</li> <li>* Non-Uniform Velocity</li> </ul> </li> <li>(7) The change of displacement in a very small interval of time of a body is called its: <ul> <li>* Non-Uniform Velocity</li> <li>* Average Velocity</li> <li>* Uniform Velocity</li> <li>* Instantaneous Velocity</li> </ul> </li> <li>(8) The average and instantaneous velocities will be equal when a body moves with:  <ul> <li>[2008 F]</li> </ul> </li> <li>* Uniform velocity</li> <li>* Constant acceleration</li> <li>* Retardation</li> </ul> <li>(9) The magnitude of velocity is called: <ul> <li>* Acceleration</li> <li>* Speed</li> <li>* Distance</li> <li>* Retardation</li> </ul> </li> <li>(10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:  <ul> <li>The distribution</li> <li>* Acceleration</li> </ul> </li>	(6)	The total change of displacement divide	d by the total change in time of a body is called
<ul> <li>* Average Velocity</li></ul>	, .		
<ul> <li>(7) The change of displacement in a very small interval of time of a body is called its:  * Non-Uniform Velocity</li></ul>		* Uniform Velocity	* Instantaneous Velocity
<ul> <li>* Non-Uniform Velocity</li> <li>* Uniform Velocity</li> <li>* Instantaneous Velocity</li> <li>(8) The average and instantaneous velocities will be equal when a body moves with:  [2008 F]</li> <li>* Uniform velocity</li> <li>* Constant acceleration</li> <li>* Variable acceleration</li> <li>* Retardation</li> <li>(9) The magnitude of velocity is called:  * Acceleration</li> <li>* Distance</li> <li>* Retardation</li> <li>(10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:</li> </ul>		* Average Velocity	* Non-Uniform Velocity
<ul> <li>* Uniform Velocity</li></ul>	<b>(7)</b>	The change of displacement in a very sm	all interval of time of a body is called its:
<ul> <li>(8) The average and instantaneous velocities will be equal when a body moves with:  [2008 F]  * Uniform velocity  * Constant acceleration  * Variable acceleration  * Retardation  (9) The magnitude of velocity is called:  * Acceleration  * Speed  * Distance  * Retardation  (10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:    11</li></ul>		* Non-Uniform Velocity	* Average Velocity
<ul> <li>* Uniform velocity * Constant acceleration</li> <li>*Variable acceleration * Retardation</li> <li>(9) The magnitude of velocity is called:</li> <li>* Acceleration * Speed * Distance * Retardation</li> <li>(10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:</li> </ul>		* Uniform Velocity	* Instantaneous Velocity
<ul> <li>* Uniform velocity</li> <li>* Constant acceleration</li> <li>* Variable acceleration</li> <li>* Retardation</li> <li>(9) The magnitude of velocity is called:</li> <li>* Acceleration</li> <li>* Speed</li> <li>* Distance</li> <li>* Retardation</li> <li>(10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:</li> </ul>	(8)	The average and instantaneous velocities	will be equal when a body moves with:
*Variable acceleration	14 14 14 14 14 14 14 14 14 14 14 14 14 1		[2008 F]
<ul> <li>(9) The magnitude of velocity is called:         <ul> <li>* Acceleration</li> <li>* Speed</li> <li>* Distance</li> <li>* Retardation</li> </ul> </li> <li>(10) If Δr is the change in the position of body during time Δt, then its velocity is equal to:</li> </ul>		* Uniform velocity	* Constant acceleration
* Acceleration * Speed * Distance * Retardation  (10) If $\overline{\Delta r}$ is the change in the position of body during time $\Delta t$ , then its velocity is equal to:		*Variable acceleration	* Retardation
(10) If $\frac{\Delta r}{\Delta t}$ is the change in the position of body during time $\Delta t$ , then its velocity is equal to:	(9)	The magnitude of velocity is called:	
		* Acceleration * Speed	* Distance * Retardation
	(10)	If $\Delta r$ is the change in the position of body	during time $\Delta t$ , then its velocity is equal to:
$\Lambda V$ $\Lambda V$		$\overline{\Delta V}$ $\overline{\Delta P}$	<del></del>
* *		*	
	(11)		2.
(11) A boy goes from 2 m to 12m mark and back to 10m mark in 3 second its average speed is: [2003 P.M]	(11)		
speed is: [2003 P.M]  * 2 m/s		•	

XI-Physics Chapter# 3, Page# 38 A particle of mass 0.5gm moving along x - aixs is located at  $x_1 = 15m$  at  $T_1 = 5Sec$ and at  $x_2 = 33$ m at 13sec. Its velocity is: \* 2.45m/Sec \* 6m/Sec \* 4.45m/Sec \* 2.25m/Sec (13) If the distance-time graph of a moving body is a straight line, the body moves with: \* Uniform velocity \* Uniform acceleration \* Non-uniform acceleration \* Average velocity (14) If the distance – time graph of a moving body is a curve, the body moves with: \* Uniform velocity \* Average velocity \* Uniform Acceleration \* Variable velocity (15)The S.I unit of velocity is: \* Foot/Second + \* Meter/Second \* Centimeter/Second \* All of these (16) The dimension of velocity is: Acceleration: (17)The change in velocity per unit time is called: \* Uniform velocity \* Acceleration \* Retardation (18) If the velocity of a body increases by equal amounts in equal intervals of time it is said to have: \* Uniform acceleration \* variable acceleration \* Average acceleration \* Instantaneous acceleration (19) The acceleration of a body in a very small interval of time (time tends to zero) is called: \* Average acceleration \* Uniform acceleration \* Variable acceleration \* Instantaneous acceleration (20)When the value of average and instantaneous acceleration are equal the body is said to be moving with: \* Average acceleration \* Uniform acceleration \* Instantaneous acceleration \* Variable acceleration (21) The rate of increase of velocity is called: \* Negative Acceleration \* Final velocity \* Average velocity \* Positive Acceleration (22)The decrease in velocity per unit time is called: \* Initial velocity \* Final velocity \* Average velocity \* Retardation The S.I unit of acceleration is: (23) $* m/s^2$ \* Foot /s<sup>2</sup> \* cm/s<sup>2</sup> \* All of these (24)The dimensions of acceleration is:  $*LT^2$ \* LT-1 \* LT-2 If the velocity time graph of a moving body is a curve, the body moves with: [2005] \* Constant speed \* Constant velocity \* Constant Acceleration \* Changing Acceleration (26) The acceleration of body moving with uniform velocity is: \* Zero \* Not Zero \* Uniform \* Variable (27) What is the average acceleration if a car moves 20m/s to 50m/s in 15 Sec?  $* 1 \text{ m/s}^2$  $*2 \text{ m/s}^2$  $* 3 \text{ m/s}^2$  $*4 \text{ m/s}^2$ If a car is moving with uniform acceleration of 2m/sec<sup>2</sup>, then in 4 seconds its velocity (28) increases from 10m/sec. to: \* 18 m/sec \* 28 m/sec \* 38m/sec (29) A body starting from rest covers a distance of 0.45km and acquired a velocity of 300km/hr. Its acceleration will be:  $* 0.092 \text{ m/sec}^2$  $*0.5 \text{ m/sec}^2$ 

\*  $7.71 \text{ m/sec}^2$ 

 $* 0.15 \text{ m/sec}^2$ 

XI-Physics Chapter# 3, Page# 39

Equ	ations of Motioa:		
(30)	Which one is the correct equation to	calculate time "t"	when "vi", "vf" and "a" have
	their usual meaning:		[2008 F]
	$* t = \frac{V_i + a}{A} \qquad * t = \frac{V_i + a}{A}$	$\psi_i = V_i - V_i$	$v_f + v_i$
	$* t = \frac{\mathbf{v}_t + \mathbf{a}}{\mathbf{v}_t} \qquad * t = \frac{\mathbf{v}_t + \mathbf{a}}{\mathbf{v}_f}$	a	a
(31)	Which one is the correct equation to a		
	usual meaning:	100	[2009 F]
		$v^2 - v^2$	· · · · · · · · · · · · · · · · · · ·
	* $a = \frac{v_f^2 + v_i^2}{S}$	* a = -1-1-2S	$* a = \frac{1}{2}$
(32)	The distance covered by a body in tim	e t starting from rest	15.
()			the second secon
	$*\frac{1}{3}at^2$ * V t	$*\frac{1}{2}at^{2}$	* at <sup>2</sup>
na ar a	<b>3</b>	2	
	ion Under Gravity:	1 11	
(33)	The force which attracts a body toward		
(34)	* Mass	* Density	* Acceleration
(34)	How much height does a freely falling	, body of mass to kg	12003 P.M. 2006 C 20061
	* 9.8	* 49 m	[2003 P.M, 2005 S,2006] * 4.9 m
(35)	A lkg stone when falling freely from	om a height of 10m	strike the ground with the
` '	velocity of:		[2002 P.M, 2006 F]
		* 98 m/s	* 196 m/s
(36)	A body is thrown vertically upward with	an initial velocity 9.8	m/s. It will attain a height:
	* 9.8 m	* 4.9 m	* 29.4 m
(37)	How many metre will a 20kg ball, start	ing from rest, fall fre	ely in one second:
	* 19.6m	* 4.0m	* 4.9m
(38)			[2007 S]
(BA)	*5N *9.8N	* 19.6 N	* Zero
(39)			
Low	* 20 N 196 N	* 19.6 N	* 1960 N
цауу: (40)	of Motion: The Laws of motion show the relation	hatroom	
(40)			
5.5	* Mass and acceleration	* Mass and veloci	
(41)	Newton's First law of motion is also ki	* Force and accele	
(**)	* Law of Power	* Law of Inertia	[2009 F]
	* Law of Action and Reaction	* Law of Force	
(42)	Inertia of a body is measured in terms of	of:	
, ,		* Its velocity	* Its reaction
(43)	When a constant force is applied on a body		iform: [2008 F]
	* Velocity * Speed	* Acceleration	* Momentum
44)	Swimming is possible because of which	h law of motion:	
198	* First * Second	* Third	* All of these
45)	It is true that: $*a = mF$ $*a =$	<b>v</b>	<b>D</b>
43)	It is true that: $*a = mF$ $*a =$	= <del></del>	$=\frac{1}{m}$ * $a=\frac{m}{F}$
46)	If F is kept constant and m is doubled, t	hen acceleration is:	
	* One-fourth * One-half	* One-third	* One-ninth
47)	The unit of tension in C.G.S system is:		[2007 S]
~ :··	* Joule * Energy	* dyne	* Foot-Pound
48)	Dyne is the unit of:		[2009 F]
	* Angular Acceleration	* Acceleration	
	* Displacement	* Force	
	*		

					m
				hysics Chapter# 3,	Page# 40
(49)	A helicopter of mass What resultant force * Zero * 3 × 10 <sup>4</sup> N upward	e acts on the helicopt  * 3 ×			002 P.E]
(50)	A stone has mass 10	00 gm: Its weight wil		00000 X!	
(51)	* 9800 N A mass of 5 kg mov	* 0.98 N es with an accelerati	* 0.0980  N fon of 10 m/s <sup>2</sup> force	* 98000 IN on it is:	
	* 10 N	* 50 N	* 2 N	* 15 N	
(52)	Newton is the force v	vhich produces an acc	celeration of 1 m/sec <sup>2</sup> i	n a body of mass:	
	$*\frac{1}{2}$ Kg		* 2 Kg	- <del>-</del>	
(53)	A helicopter weight the helicopter is:	- 7			
	* 4720 N	* 3920 N	* 3924 N	* 3916 N	[2012]
	on of Bodies conne		, <del>i</del>		lay Thair
(54)	acceleration is given	n by the formula:	' are hanging vertice		iey. Then
	* $a = \left(\frac{m + m_2}{m_1 + m_2}\right) g$	* $a = \left(\frac{m_1 - m_2}{m_1 + m_2}\right)g$	* $a = \frac{2m_1m_2}{m_1 + m_2}g$	$* a = \frac{m_1 g}{m_1 + m_2}$	
(55)	Two bodies of mas given by the formul		nanging vertically ov	ver a pulley. The	tension is
			$* T = \frac{m_2 g}{m_1 + m_2}$	* $T = \frac{2m_1m_2g}{m_1 + m_2}$	
(56)	The force applied or		1 7 7		
		* Momentum	* Tension	* Torque	
(57)	The S.I unit of tensi * Watt		* Newton	* Dyne	
(58)		sion in a string will a		5,	
	* Same direction of		* opposite direction	of applied force	
(59)	* Both of these	)ka is suspended by	* None of these a string, the tension	n produced in th	e string is
	$(g = 10 \text{ m/s}^2)$ :	okg is suspended by	a string, the tensio	n produced in th	c string is
4 Sept 2	- 10	* 18 N	* 9.8 N	* 980 N	•
Mom	entum and law of		Iomentum:		
(60)	The product of mass	s of a particle and its	velocity is called:		and the second
(61) <sup>1</sup>	* Force The S.I unit of linea	* Acceleration r momentum is:	* Momentum	*Angular mome [2003 P.E, 2004, 2	
	* N/s	* N-s	* J/s	* N·m	
<b>(62)</b>	•	_		·	
((2)	* Thrust	* Torque	* Moment	* Momentum	
(63)	* 200 N.s	s on a body for 10 sec * 800 N.s	cond what will be the * 5 N:s	* 500 N.s	entum:
(64)		ording to the law of			
	* Mass	* Energy	* Momentum	* Force	
(65)			n moves backward w		
	* Velocity equal to t		* Velocity less than	that of the bullet	· ·
(66)		nan that of the bullet cts on a body for a ve	* Remains at rest ery short time, then in	mpulse will be:	

XI-Physics Chapter# 3, Page# 41

	stic comision:	
(67)		[2001, 2003, P.E, 2005 S, 2008]
	* Both momentum and K. E are conserve	
	* Neither momentum nor K. E is conserv	ed
	* Only momentum is conserved	* Only K. E is conserved
(68)	In an inelastic collision of two bodies:	
	* K E is conserved only	* Momentum is conserved only
	* Both K E and momentum are conserved	* None of these
(69)	When two balls collide and as a result ter	mperature changes, which one of the following
	law is conserved?	
	* Velocity	
<b>(70)</b>	The velocity of a body after elastic collision	n with a body of the same mass at rest will be:
		[2006 F]
(21)	* Reduced to half * Doubled	
(71)	will:	a massive body which is at rest, light object
		* be stopped
	* rebound with twice the velocity	
(72)		y have equal momentum, Which of them has
( )	greater velocity:	, and a final has
		* The heavy ball
•		* Depends upon the direction of momentum
Frict	tion:	
(73)		
		* Kinetic friction * All of these
(74)	- 1	
	* Always less than the kinetic friction	
	* Always greater than kinetic friction	1000000000000000000000000000000000000
	* Equal to kinetic friction	a though a lain said Called
(75)	* Sometime smaller and sometime greater The correct relation of μ is:	
(75)	The correct relation of $\mu$ is.	[2005 F]
	* $\mu = R/f$ * $\mu = f/R$	
(76)	When a body slides over a surface, the	kinetic friction (fk) and static friction (fs) are
r	related:	[2003 P.E]
(77)		* (k = 0)
(77)		
(78)		* Less than one * Greater than one periences a frictional force which is given by:
(70)	A body failing down through a field exp	[2009 F, 2012]
	* Law of gravitation * Snell's law	* Stoke's law * None of these
(79)	The Property of fluids due to which they r	esist their flow is called:
		* Velocity * Co-efficient of friction
(80)	Stoke's law holds good for:	[2009]
	* The bodies of all shapes	Motion through non-viscous medium
	* Motion through vacuum	Motion through viscous medium
(81)	Equation $F = 6 \pi \eta r v$ represents: [2009]	P.E, 2002 P.M, 2003 F, 2006, 2007]
		Bragg's Law * Newton's Law
(82)	Which of the following is the mathematica	
(02)		$F = 6 \pi v \qquad *F = 6 \pi \eta r v$
(83)	The unit of coefficient of friction in S.I un	
	* Newton * Dyne *	joule * None of these (No unit)

#### Inclined Plane:

The acceleration of a body on a smooth inclined plane depends upon: \* Mass of a body \* Weight of a body \* Reaction of the plane\* Angle of inclination

(85)When a body moves up a rough inclined plane, it is acted upon by:

A body is moving up a frictionless inclined plane surface at an angle of 45°. Its (86).[2005 S] \* - 3.46 m/s<sup>2</sup> acceleration is given by:

 $*-6.93 \text{ m/s}^2$  $*3.46 \text{ m/s}^2$ \*  $6.93 \text{ m/s}^2$ 

(87) The acceleration of a body moving down a frictionless inclined plane at 30° will be: [2001, 2004]

 $*4.9 \text{ m/s}^2$ 

\* 9.8 m/s<sup>2</sup>

\* 980 m/s<sup>2</sup>

\* 98 m/s<sup>2</sup>

#### **ANSWER KEY**

1. Displacement	2. Displacement	3. Meter
4. Speed	5. Velocity	6. Average Velocity
7. Instantaneous	8. Uniform Velocity	9. Speed
10. $\frac{\overline{\Delta r}}{\Delta t}$	11. 4 m/s	12.
13. Uniform Velocity	14. Variable Velocity	15. Meter / Second
16. LT <sup>-1</sup>	17. Acceleration	18. Uniform Acceleration
19. Instantaneous Acceleration	20. Uniform Acceleration	21. Positive Acceleration
22. Retardation	23. m/s <sup>2</sup>	<b>24.</b> LT <sup>-2</sup>
25. Changing Acceleration	<b>26.</b> Zero	<b>27.</b> 2 m/s <sup>2</sup>
<b>28.</b> 18 m/s	<b>29.</b> 0.092 m/s <sup>2</sup>	30. $t = \frac{v_f + v_j}{a}$
31. $a = \frac{v_i^2 + v_i^2}{2S}$	32. $\frac{1}{2}$ a t <sup>2</sup>	33. Weight
<b>34.</b> 19.6m	35. 14 m/s	<b>36.</b> 4.9 m
<b>37.</b> 4.9 m	38. Zero	<b>39.</b> 196 N
40. Force and acceleration	41. Law of inertial	42. Its mass
43. Acceleration	44. Third	45. a = F/m
46. one-half	47. Dyne	48. Force
49. Zero	50. 0.98 N	<b>51.</b> 50 N
<b>52.</b> 1 Kg	53. 3920 N	$54. a = \left(\frac{m_1 - m_2}{m_1 - m_2}\right)g$
55. $T = \frac{2 m_1 m_2 g}{m_1 + m_2}$	<b>56.</b> Tension	57. Newton
58. Opposite direction of applied force	59. 100 N	60. Momentum
61. N.S	62. Momentum	<b>63.</b> 500 N.S
64. Momentum	65. Velocity less then that of the Bullet	<b>66.</b> FΔt
67. Both momentum and K.E are conserved	<b>68.</b> Momentum conserved only	69. Momentum
70. Zero	71. rebound with the same velocity	72. The light ball
73. All of these	74. Always greater then kinetic Friction	<b>75.</b> $\mu = f/R$
<b>76.</b> fk < fs	77. Less than one	78. Stoke's law
79. Velocity	80. Motion through viscous Medium	81. Stoke's law
<b>82.</b> F = 6 π η r v	83. None of these (No unit)	84. Angle of inclination
85. Four forces	<b>86.</b> $-6.93 \text{ m/s}^2$	87. 4.9 m/S <sup>2</sup>