Unit 3

Dynamics

Sr. No.	Questions	A	В	С	D
1	When we kick a stone, we get hurt. This is due to:	inertia	velocity	momentum	reaction√
2	An object will continue its motion with constant acceleration until:	the resultant force on it begins to decrease.	the resultant force on it is zero. ✓	the resultant force on it begins to increase.	the resultant force is at right angle to its tangential valocity.
3	Which of the following is a non-contact force?	Friction	Air resistance	Electrostatic force√	Tension in the string
4	A ball with initial momentum p hits a solid wall and bounces back with the same velocity. Its momentum p' after collision will be:	p'=p	$p' = -p \checkmark$	$p' = C_1$	p' = -2p
5	A particle of mass m moving with velocity ν collides with another particle of the same mass at rest. The velocity of the first particle after collision is:	υ	-v 0	0 ~	$-\frac{1}{2}$
6	Conservation of linear momentum is equivalent to:	Newton's first law of motion	Lewton's Second law of motion	Newton's third law of motion√	None of these
7	An object with mass $5 kg$ moves at constant velocity of $10 ms^{-1}$. A constant force acts for $5 s$ and gives it a velocity of $2 ms^{-1}$ in opposite direction. Force acting is:	3.116N	-10 N	-12 N ✓	−15 <i>N</i>
8	A large force acts of an object for a short time. In this case, It is easy to determine:	magnitude of force	time interval	product of force and time ✓	none of these
9	A lubricant is usually introduced between two surfaces to decrease friction. The lubricant:	decreases temperature	acts as ball bearings	prevents direct contact of the surfaces ✓	provides rolling friction



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