Unit 2 Kinematics

Sr.	Questions	Δ	В	C	D
No.	The numerical ratio of	always less than	always equal to	always greater	equal to or less
2	If a body does not change its position with respect to some fixed point, then it will be in a state of:	one rest√	motion	than one uniform motion	than one√ variable metion
3	A ball is dropped from the top of a tower, the distance covered by it in the first second is:	5 m √	10 m	50 m	100 m
4	A body accelerates from rest to a velocity of $144 \ kmh^{-1}$ in $20 \ seconds$. The distance covered by it is:	100 m	400 m ✓	140000	1440 m
5	A body is moving with constant acceleration starting from rest. It covers a distance <i>S</i> in 4 seconds. How much time does it take to cover one-fourth of this distance?	1 s	400 m ✓	4 s	16 s
6	The displacement time graphs of two objects A and B are shown in the figure. Point out the true statement from the following:	The velocity of A is greater than	The velocity of A is less than B	The velocity of A is equal to that of B	The graph gives no information in this regard
7	The area under the speed time graph is numerically equal to:	velocity	uniform velocity	acceleration	distance covered√
8	Gradient of the speed-time graph is equal to.	speed	velocity	acceleration√	distance covered
9	Gradient of the distance— time graph is equal to the:	speed√	velocity	distance covered	acceleration
10	A car accelerates uniformly from $60.5 kmh^{-1}$ at $t=0$ to $113 kmh^{-1}$ at $t=9 s$. Which graph best describes the motion of the car?	v	v	v t	v