INDIAN SCHOOL AL WADI AL KABIR

Class: XI	Department: SCIENCE SUBJECT : PHYSICS	Date of submission: 16.09.2020
REVISION WORKSHEET FOR PRACTICE		Note: A4 FILE FORMAT
NAME OF THE STUDENT	CLASS & SEC:	ROLL NO.

1. Check the correctness of the equation v=u+at
2. Define relative velocity. Derive expression for relative displacement between two bodies.
3. Draw velocity time graph for uniformly accelerated motion.
4. Derive displacement -time relation graphically.
5. Show that the path of the projectile is parabola.
6. Write the expression for time of flight, maximum height, and maximum range (Numerical)
7. Write the expression for centripetal acceleration
8. State law of conservation of linear momentum. Derive the expression for it.
9. Expression for static friction and kinetic friction/ difference/limiting static friction
10. Derive expression – elastic collision in one dimension.
11. Different types of work/examples.
12. State work- energy theorem/proof.
13. Write the expression for potential energy stored in a spring.
14. Derive expression for position-time, velocity-time and velocity- displacement relations of uniformly accelerated motion in one dimension graphically.
15. On the basis of dimensions, decide which of the following relations for the displacement of a particle undergoing simple harmonic motion is not correct:

(a) $y = a \sin 2\pi t / T$
(b) $y = a \sin vt.$
(c) $y = \frac{a}{T} \sin\left(\frac{t}{a}\right)$
(d) $y = a\sqrt{2}\left(\sin\frac{2\pi t}{T} - \cos\frac{2\pi t}{T}\right)$

Prepared by :Ms. Anu Annie Mathews	Checked by : HOD - SCIENCE