

BAHRIA COLLEGE ZAFAR CAMPUS ISLAMABAD, DEPARTMENT OF PHYSICS

CLASS IX, HOME WORK (30th NOVEMBER- 3rd DECEMBER, 2020)

LAST DATE OF SUBMISSION: 03.DECEMBER.2020 TIME 1200 Hrs.

NOTE: SOLVING AND SUBMISSION OF THESE ASSIGNMENTS ARE COMPULSORY THESE CAN BE SUBMITTED BY ANY MEDIUM TO THE CONCERNED TEACHER BEFORE THE DEADLINE, ATTEMPT ALL QUESTIONS:-

UNIT#3 'DYNAMICS'

1. Define terms Force, inertia and momentum with examples.
2. Explain Newton first law of motion.
3. Explain and derive the relation for Newton second law of motion.
4. Differentiate between mass and weight.
5. Explain Newton third law of motion with suitable examples.
6. Define law of conservation of momentum and derive the equation.
7. Prove that change in momentum is equal to applied force.
8. Why Newton first law of motion is also called law of inertia?
9. Why we fall forward when driver applies brake suddenly?
10. Why gun recoils when bullet is fired?
11. Define friction and derive the formula for limiting friction.
12. Give some examples from daily life in which friction is needed.

EXAMPLES

Solve the following examples on your notebook.

Example No 3.1, 3.2, 3.3, 3.6, 3.7

EXERCISE NUMERICAL PROBLEMS

Solve the numerical problems on notebook.

Chapter No 2 Numerical Problems 2.1, 2.2, 2.3, 2.4, 2.5 and 2.6

MULTIPLE CHOICE QUESTIONS

Chapter No 1, 2 and 3