

**BAHRIA COLLEGE ZAFAR CAMPUS ISLAMABAD,**  
**DEPARTMENT OF PHYSICS**

**CLASS XI, HOME WORK (30<sup>th</sup> November- 3<sup>rd</sup> 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#6 'Fluid Dynamics'**

1. Define viscosity and compare viscosity of different fluids.
2. Explain Stokes law and derive the relation of drag force.
3. What are the factors on which drag force depends?
4. Define terminal velocity and derive its formula.
5. Explain the types of fluid flow.
6. What are the assumptions of an ideal flow of a fluid?
7. Prove that  $Av = \text{constant}$  using equation of continuity.

**Assignments**

**Solve the following assignments on your notebook.**

Assignment#6.1 (page199) Assignment#6.2 (page 204)

**Exercise Conceptual Questions**

**Answer these questions.**

Unit#5 conceptual questions#5.4, 5.5, 5.6, 5.8, 5.9, and 5.11