BRAC UNIVERSITY

PHY-111(Principles of Physics I)

**Section-21**

Assignment-2

Marks: 25

Date of issue: 30 October 2022, 2022

**Last Date of Submission: 03 November, 2022 Set-B** (**Even** student ID)

**Instructions:**

* Use A4 size papers
* Use the front page as the cover page
* Write your Name, ID and **Section** clearly on the cover page

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1. While playing catch with your friends on the balcony, the ball goes sailing over the edge. The ball passes the edge with an angle 30° below the horizontal and an initial velocity of 7.5 m/s.
2. If the ball hits the ground 4 s later, how far away is the ball from the building? (marks 8)
3. What height did the ball fall from? (marks 8)
4. Determine how long it takes the ball to travel to a point 8 m below the balcony? (marks 9)

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