Student's Name: _____

Grade 9th

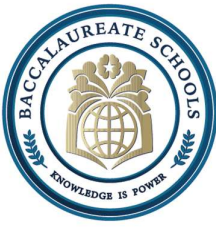12th November, 2025

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Q1) Complete the following:

Projectile motion is an example of _____ motion.

We analyze projectile motion by splitting it into two _____, one is called _____, and the other is called _____.

The farthest horizontal displacement is called _____ and the farthest vertical displacement is called _____.

Q2) A pistol is fired horizontally toward a target 120m away but at the same height. The bullet's velocity is 200 m/s. <u>How far below the target does the bullet hit</u> _and_ <u>how long did it take to get there</u>?

Physics – Quiz 4 (10 marks)

Student's Name: _____

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Q3) A ball is kicked with an initial velocity of 12m/s at angle of 50° to the horizontal. Draw a diagram of the situation and find the following,

a- How long will the ball stay in the air

b- How far will the ball reach just as it hits the ground?

c- What will be the maximum height of the ball?