

SPH3U1 - KINEMATICS

PART A: MULTIPLE CHOICE (10 marks)

PART B: MATCHING (10 marks)

PART C: APPLICATION (55 marks)

- distance, displacement, speed & velocity (6)
- position & displacement vectors (4)
- position-time graph analysis (7)
- $d-t \leftrightarrow v-t \leftrightarrow a-t$ graphs (20)
- kinematics problems (10)
- horizontal projectile problem (8)

PART D: EXPLAIN (25 marks)

- relative motion scenarios (6)
- distance & displacement (3)
- sketch $d-t$ & $v-t$ graphs for the following scenario (4)
- projectile motion assumptions (4)
- analysis of projectile experiment (8)