

## SPH4U UNIT 3 - EGM FIELDS

PART A: MULTIPLE CHOICE (15 marks)

PART B: TRUE/FALSE (10 marks)

PART C: APPLICATION (25 marks)

- $F_E$  and charge problem (6)
- Millikan experiment problem (12)
- $F_M$  and moving charge problem (7)

PART D: EXPLAIN (25 marks)

- Cavendish experiment discussion (4)
- satellite orbit, radius, & speed scenario (4)
- comparing Coulomb's Law and Newton's Universal Law (4)
- the effect of changes on  $\epsilon$  (4)
- comparing forces/motion of electron & proton (4)
- $F_M$  and moving charge scenario (5)