

Sem. 1 Exam 2019

Section 1

- 16 questions - 3 are multiple choice.
- Similar to 2017 questions in content.

Section 2

- 6 questions.
- Projectile motion - includes impact velocity.
- Gravitation - satellite motion, Kepler's 3rd law.
- Vertical circular motion and conservation of energy ($E_T = E_P + E_K$) - Tricky.
- Equilibrium question - includes finding the reaction force at the pivot.
- DC motor - construction, max. torque.
- Isolated charge in electric and magnetic fields - ion accelerator, velocity selector, radius of curvature in magnetic field.

Section 3

- 2 reading comprehensions.
- Gravitation and astronomy - calculations and derivations.
- Prac. question - electromagnetism, graphing question, straight forward.