



PORTIONS FOR FIRST TERM EXAM - JAN, 2019

YEAR 13

YR. 13 - PHYSICS

Topic 1- Working as a Physicist

- 1- Units
2. Estimation

Topic 2- Mechanics

- 2.1 Motion (1-8)
- 2.2 Energy (1-2)
- 2.3 Momentum (1-2)

Topic 3 - Electric circuits

- 3.1- Electrical quantities (1-6)
- 3.2 Complete electrical circuits (1-5)

Topic 4- Materials

- 4.1 Fluids-(1-4)
- 4.2 Solid material properties (1-3)

Topic 5 – Waves and the particle nature of light

- 5.1 Basic waves (1-2)
- 5.2 The behaviour of waves (1-4)
- 5.3 Optics (1-5)
- 5.4 Quantum Physics (1-4)

Topic 6 Further Mechanics

- 6.1 Further Momentum (1-2)
- 6.2 Circular Motion (1-2)

Topic 7 Electric and Magnetic fields

- 7.1 Electric fields(1-4)
- 7.2 Capacitors(1-3)
- 7.3 Electromagnetic effects (1-5)

Topic 8 Nuclear and Particle Physics

- 8.1 Probing matter (1-2)

Topic 10 -Nuclear radiation

- 10.1 Radioactivity (1-4)

Topic 11 - Gravitational fields

- 11.1 Gravitational fields (1-2)

Topic 13 - Oscillations

- 13.1 Oscillations (1-4)