Practice Question Set For GCSE

Subject: Physics

Name of the Student:\_

Paper-1 Topic: Energy (High Demand)



Max. Marks: 18 Marks Time: 18 Minutes Mark Schemes Q1. (a) resultant force = zero upward force = downward force accept forces are balanced accept weight for downward force 1 (b) (i) 84 allow 1 mark for correct substitution ie  $840 = m \times 10$ 2 (ii) 12 accept 12.02 for both marks or 1010 ÷ their (b)(i) correctly calculated a resultant force of 1010 (N) gains 1 mark an answer 22(.02) gains 1 mark 2  $m/s^2$ accept m/s/s 1 [6] **Q2.** energy required to raise the temperature of a substance by 1 °C (a) accept heat for energy 1 unit mass / 1 kg 1 (b) (i) 7 140 000 (J) allow 2 marks for a correct substitution, ie  $E = 20 \times 420 \times 850$ provided no subsequent step 850 gains 1 mark if no other mark awarded 3 (ii) particles in the air have more (kinetic) energy than the particles in the steel

allow particles in the air have a greater speed.